

# **A1-F18AC-740-210**

**1 February 2001**

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## **TECHNICAL MANUAL**

### **ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING**

### **WEAPON CONTROL SYSTEMS**

**NAVY MODEL  
F/A-18A AND F/A-18B  
161353 AND UP**

N00421-98-D-1339

**This volume is one of four volumes and is incomplete without A1-F18AC-740-200, A1-F18AC-740-220 and A1-F18AC-740-230.**

**This volume contains WP011 00 through WP027 21.**

**This manual is incomplete without A1-F18AC-740-250/(C)**

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Only those work packages/pages assigned to the manual are listed in this index. Dispose of superseded work packages/pages. Superseded classified work packages/pages shall be destroyed in accordance with applicable security regulations. If changed pages are issued to a work package, insert the changed pages in the applicable work package. The portion of text affected in a change or revision is indicated by change bars or the change symbol "R" in the outer margin of each column of text. Changes to illustrations are indicated by pointing hands, change bars, or MAJOR CHANGE symbols. Changes to diagrams may be indicated by shaded borders.

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012 00		1 – 16 Deleted .....	0	025 01		027 09	
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1 – 20 Deleted .....	0	20 blank .....	0	1 – 14 .....	0		
017 03		023 00					
1 – 8 Deleted .....	0	1 – 11 .....	0				

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**LIST OF TECHNICAL PUBLICATION DEFICIENCY REPORTS INCORPORATED**

**ORGANIZATIONAL MAINTENANCE**

**TESTING AND TROUBLESHOOTING**

**WEAPON CONTROL SYSTEMS**

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1. The TPDRs listed below have been incorporated in this issue.

<b>IDENTIFICATION NUMBER/ QA SEQUENCE NUMBER</b>	<b>LOCATION</b>
None	



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - MAINTENANCE BUILT-IN TEST

## STORES MANAGEMENT SYSTEM

**EFFECTIVITY: WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A AND UP AND  
DIGITAL DATA COMPUTER CONFIG/IDENT 85A AND UP (A1-F18AC-SCM-000)**

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 27	-	Leading Edge Flap/Control Stick Changes (ECP MDA-F/A-18A-00044)	15 Jun 86	ECP Coverage only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Maintenance Built-In Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>System Required Components</b></p> <p>Armament Computer CP-1342/AYQ-9(V)  Minimum Command Signal Encoder-Decoders required are:  Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)  Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)  Gun Command Signal Encoder-Decoder KY-855/AYQ-9(V)</p> <p align="center"><b>Related Systems Required</b></p> <p>Avionics Cooling System  Electrical System  Maintenance Status Display and Recording System  Mission Computer System  Multipurpose Display Group</p> <p align="center"><b>Support Equipment Required</b></p> <p align="center">None</p> <p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p>Component locations are shown in WP007 00.</p> <p>BIT displays are shown on figure 1.</p> <p>The Stores Safety Inspection is to be done using A1-F18AE-LWS-000.</p>		
1. STORES SAFETY INSPECTION.		
<div align="center" style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"><b>WARNING</b></div> <p align="center">To prevent injury or death of personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.</p>		
a. Make sure electrical power is off (A1-F18AC-LMM-000).		
b. Make sure all weapons are removed from aircraft (A1-F18AC-LWS-000).		

Table 1. Maintenance Built-In Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosive cartridges are removed from cartridge chambers on Multiple Ejection Racks (MER)/ BRU-41 if installed on aircraft.</p> <p>g. If gun installed, make sure gun electrical signal safety switch (aft of door 6) is set to safe (extended) position.</p> <p>h. If gun installed, make sure gun hold back mechanism handle is set to cleared (gun holdback handle indicator extended).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>If stores management system encoder-decoder high current driver test is not required, omit steps i thru m. The high current driver test activates the weapon release circuits for all weapon stations when the conditions below exist.</p> <ol style="list-style-type: none"> <li>1. MASTER switch set to ARM.</li> <li>2. ARMAMENT OVERRIDE switch set to OVERRIDE.</li> <li>3. No weapon/store ids exist on any of the weapons stations.</li> <li>4. Weapon insertion panel switches on armament computer are all set to zero.</li> </ol>		
i. Open door 14R (A1-F18AC-LMM-010).		

Table 1. Maintenance Built-In Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>j. Set all Armament Computer CP-1342/AYQ-9(V) weapon insertion panel switches to zero.</p> <p>k. Close door 14R (A1-F18AC-LMM-010).</p> <p>l. Make sure all stores are removed from aircraft (A1-F18AE-LWS-000).</p> <p>m. Make sure bomb rack suspension hooks are open for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.</p> <p>2. PRELIMINARY.</p> <p>a. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell.</p> <p>b. Apply electrical power (A1-F18AC-LMM-000).</p>	<p>WPN SYS FAIL indicator is black (not latched).</p>	<p>If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If a malfunction occurs during this test, make sure circuit breakers shown in WP008 00 are closed.</p>		
<p>c. On GND PWR control panel assembly, set and hold 1 and 2 switches to B ON for 3 seconds.</p> <p>d. On MC/HYD ISOL control panel assembly, set MC switch to NORM.</p> <p>e. On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.</p>	<p>Switches remain on (latched).</p> <p>1. LDDI and RDDI have display and center pushbutton switch on bottom row is labeled MENU.</p>	<p>1. If switches unlatch in 10 to 30 seconds, apply external cooling air to aircraft (A1-F18AC-LMM-000).</p> <p>2. If switches will not remain on, troubleshoot (A1-F18AC-420-200, WP006 00).</p> <p>1. No display on LDDI, do table 1 (A1-F18AC-745-200, WP006 00).</p> <p>2. No display on RDDI, do table 2 (A1-F18AC-745-200, WP007 00).</p>



Table 1. Maintenance Built-In Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>f. On master arm control panel assembly, set MASTER switch to ARM.</p> <p>g. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>h. On RDDI, press MENU pushbutton switch.</p> <p>i. On RDDI, press BIT pushbutton switch.</p> <p>j. Make sure RADAR switch on SNSR pod control box assembly is OFF.</p> <p>3. POWER UP BIT.</p>	<p>2. LDDI has cautions and advisory display.</p> <p>MASTER switch remains in ARM.</p> <p>Switch remains engaged.</p> <p>Menu display appears on RDDI.</p> <p>BIT control display appears on RDDI.</p>	<p>3. If STANDBY is displayed, on F/A-18A, do table 2 (A1-F18AC-745-200, WP004 00). On F/A-18B, do table 2 (A1-F18AC-745-200, WP005 00).</p> <p>4. If BRT or CONT controls do not affect display, replace left or right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace Master Arm Control Panel Assembly (A1-F18AC-740-300, WP013 00).</p> <p>Do table 1 (WP012 00).</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>If Command Launch Computer CP-1001( )/AWG (CLC) is not installed on aircraft, CLC status message display remains NOT RDY. If CLC is not installed, omit steps which refer to CLC status message displays.</p> <p>For Maintenance BIT, HARM weapons are not installed. WPNS status message display remains NOT RDY.</p> <p>When troubleshooting, maintenance codes are displayed on Digital Display Indicator ID-2150/ASM-612 (nose wheelwell DDI, left side). Read maintenance codes (A1-F18AC-LMM-000).</p>		
a. On RDDI, observe SMS and CLC status message displays.	SMS and CLC status message displays are NOT RDY.	Replace Digital Data Computer No. 1 (A1-F18AC-741-300, WP003 00).

Table 1. Maintenance Built-In Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>b. On GND PWR control panel assembly (GND PWR panel), set and hold 3 switch to B ON for 3 seconds. Observe SMS status message display.</p>	<p>1. Within 20 seconds, SMS BIT status message NOT RDY is removed and SF TEST is displayed.</p> <p>2. Within 240 seconds after SF TEST is displayed, SMS BIT status message is GO.</p>	<p>1. If SMS remains NOT RDY,</p> <p>a. On 161353 THRU 161359, do table 2 (WP010 00).</p> <p>b. On 161360 AND UP, do table 1 (WP010 01).</p> <p>2. If SMS does not display SF TEST, replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>1. If SMS display <input type="text" value="1"/> is NO GO or <input type="text" value="2"/> MUX FAIL, replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>2. If SMS display is DEGD or OPRNL GO, read maintenance code(s) in nose wheelwell or in cockpit and do table 1 (WP010 00).</p> <p>3. If SMS display is DEGD OH, set 3 switch on GND PWR panel to AUTO and do table 2 (WP010 02).</p> <p>4. If SMS display is OH, set 3 switch on GND PWR panel to AUTO and do table 1 (WP010 02).</p> <p>5. If SMS display is RESTRT and initiated BIT can not be commanded, replace Digital Data Computer No. 1 (A1-F18AC-741-300, WP003 00).</p>
<p>4. ARMAMENT COMPUTER BIT MATRIX TEST.</p> <p>a. On RDDI, press MI pushbutton switch.</p>	<p>1. Changes below appear on RDDI display:</p> <p>a. RDDI BIT control display pushbutton labels change to memory inspect options.</p> <p>b. Increment arrow, decrement arrow, ADDR, and DATA appear on RDDI memory inspect display.</p>	<p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>

Table 1. Maintenance Built-In Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
b. On equipment control, press option 1 select switch, and adjust BRT control for best display.	2. Electronic Equipment Control C-10380/ASQ (equipment control) displays options listed below:  a. UNIT appears in option 1 display.  b. ADDR appears in option 2 display.	See Electronic Equipment Control C-10380/ASQ Lamp and Switch Test (A1-F18AC-741-200, WP004 00).
	Option 1 select colon (:) appears on left side of option 1 display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
<p style="text-align: center;"><b>NOTE</b></p> <p>If an error occurs while pressing keyboard switches, press keyboard CLR switch and repeat step.</p>		
c. Press keyboard switch 6.	6 is displayed on equipment control scratch pad display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
d. Press keyboard ENT switch.	06 (unit address) is displayed between ADDR and DATA on RDDI memory inspect display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
e. Press option 2 select switch.	Option 2 select colon (:) appears on left side of option 2 display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
f. Press keyboard <span style="border: 1px solid black; padding: 0 2px;">1</span> 1, 3, 7, 0, and 0 switches, or <span style="border: 1px solid black; padding: 0 2px;">2</span> 4, 0, 0, 0, and 0 switches.	<span style="border: 1px solid black; padding: 0 2px;">1</span> 13700 or <span style="border: 1px solid black; padding: 0 2px;">2</span> 40000 is displayed on equipment control scratch pad display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
g. Press keyboard ENT switch.	<p>1. <span style="border: 1px solid black; padding: 0 2px;">1</span> 13700 or <span style="border: 1px solid black; padding: 0 2px;">2</span> 40000 is displayed under ADDR on RDDI memory inspect display.</p> <p>2. BIT Matrix data readout 000000 is displayed under DATA.</p>	<p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>1. If BIT Matrix data readout is 000400, read maintenance code(s) in nose wheelwell or in cockpit.</p> <p>a. If maintenance code 070 is displayed, do table 1 (WP010 00).</p> <p>b. If maintenance code 070 is not displayed, do table 1 (WP010 06).</p> <p>2. If BIT Matrix data readout is other than 000400, read maintenance code(s) in nose wheelwell or in cockpit and do table 1 (WP010 00).</p>

Table 1. Maintenance Built-In Test (Continued)







Procedure	Normal Indication	Remedy for Abnormal Indication
5. INITIATED BIT.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Initiated BIT test can be started after SF TEST is complete.</p> <p>If Command Launch Computer CP-1001( )/AWG (CLC) is not installed on aircraft, CLC status message display remains NOT RDY. If CLC is not installed, omit steps which refer to CLC status message displays.</p> <p>WPNS status message display remains NOT RDY.</p>		
<p>a. On RDDI,  press MENU pushbutton switch, or  press and release MENU pushbutton switch until BIT pushbutton option is displayed.</p>	Menu display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
<p>b. On RDDI,  press BIT pushbutton switch, or  in a sequence, press BIT pushbutton switch on menu display and then STORES pushbutton switch on BIT control display.</p>	<p>BIT control display appears on RDDI.</p> <p>BIT control display appears on RDDI.</p>	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
<p>c. On RDDI,  press SMS/CLC/WPNS or  press ALL pushbutton switch. Observe SMS, CLC, and AWW4 BIT status message display.</p>	<p>1. Within 2 seconds, IN TEST is displayed for SMS, CLC, and AWW4.</p>	<p>1. If CLC display remains NOT RDY, do table 2 (WP010 01).</p> <p>2. If AWW4 display remains NOT RDY, read maintenance code(s) in nose wheelwell or in cockpit, and do table 1 (WP010 00).</p> <p>3. If SMS, CLC or AWW4 display is RESTRT.</p> <p>a. Repeat step 5c.</p> <p>b. If SMS and AWW4 display repeats RESTRT, replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>c. If CLC display repeats RESTRT, replace Command Launch Computer CP-1001( )/AWG (A1-F18AC-740-300, WP010 00).</p>






Table 1. Maintenance Built-In Test (Continued)

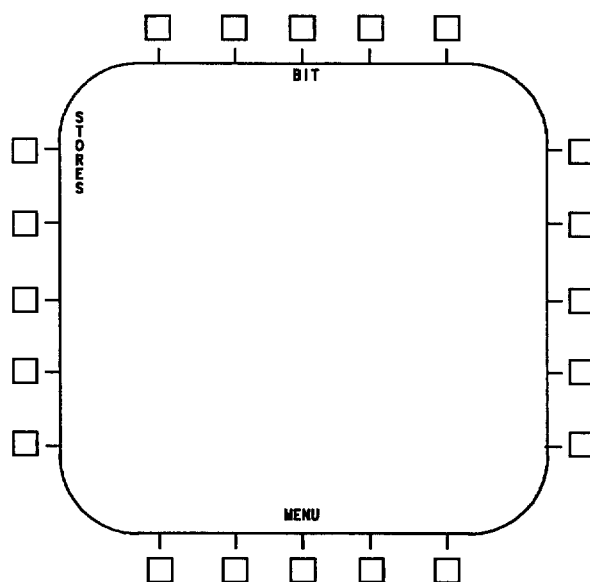
Procedure	Normal Indication	Remedy for Abnormal Indication
6. MAINTENANCE BIT.	2. Within 240 seconds, GO is displayed for SMS, CLC, and AWW4.	<p>1. If SMS, CLC or AWW4 display is DEGD, read maintenance code(s) in nose wheelwell or in cockpit and do table 1 (WP010 00).</p> <p>2. If SMS display is OPRNL GO, read maintenance code(s) in nose wheelwell or in cockpit and do table 1 (WP010 00).</p> <p>3. If SMS display is DEGD OH, set 3 switch on GND PWR panel to AUTO and do table 2 (WP010 02).</p> <p>4. If SMS display is OH, set 3 switch on GND PWR panel to AUTO and do table 1 (WP010 02).</p> <p>5. If SMS display is <input type="checkbox"/> NO GO, or <input type="checkbox"/> MUX FAIL, read maintenance code(s) in nose wheelwell or in cockpit and do table 1 (WP010 00).</p> <p>6. If CLC display is <input type="checkbox"/> NO GO, or <input type="checkbox"/> MUX FAIL, read maintenance code(s) in nose wheelwell or in cockpit and do table 1 (WP010 00).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>Maintenance BIT test can be started after SF TEST is complete.</p> <p>Pressing MENU, BIT, or STOP pushbutton switch on RDDI stops BIT.</p> <p>HARM functions are not tested during this test. WPNS BIT status message remains NOT RDY.</p>		
a. On RDDI, <input type="checkbox"/> press MAIN pushbutton switch, then press SMS pushbutton switch or <input type="checkbox"/> press SMS MAINT pushbutton switch.	<p>1. Maintenance BIT control display appears on RDDI.</p> <p>2. IN TEST appears for SMS on SMS maintenance BIT control display.</p> <p>3. Within 240 seconds SJET, PCKL, TRIG, and SSP appear above BIT status messages display.</p>	<p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p>

Table 1. Maintenance Built-In Test (Continued)

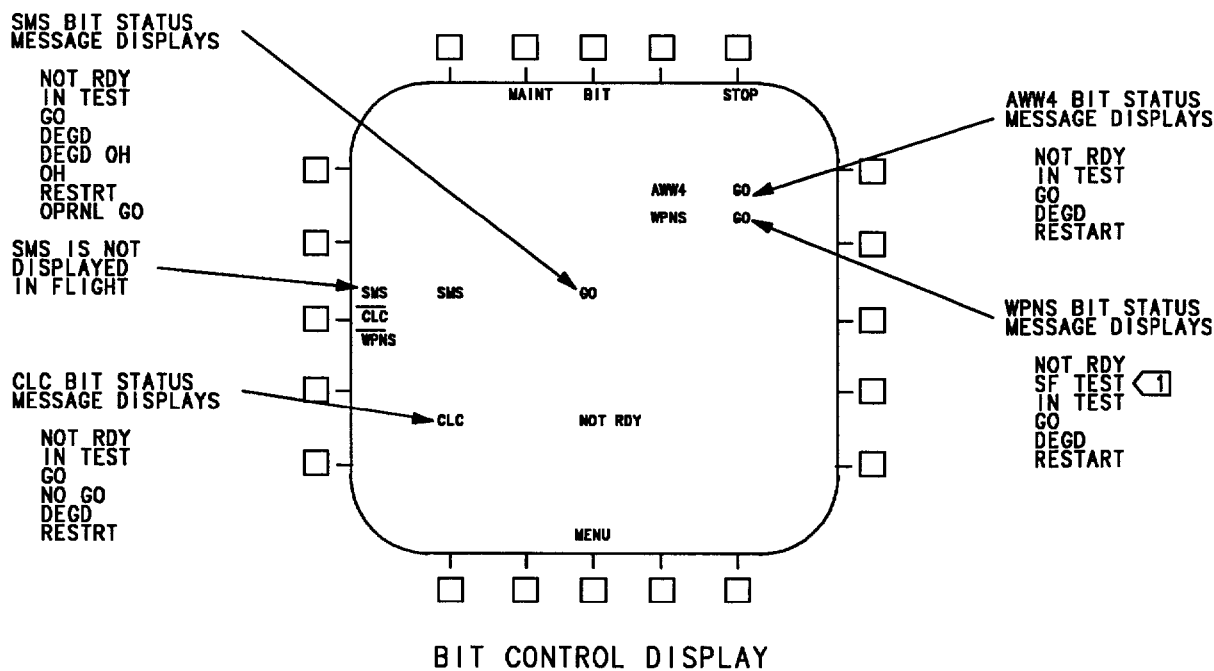
Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>During switch test (steps b thru e), GO will appear after all functions of the switch have been completed. If GO does not appear, switch function did not operate correctly.</p>		
<p>b. On LH vertical console control panel, set SELECT JETT switch as listed:</p> <p>L FUS MSL R FUS MSL RACK LCHR STORES SAFE JETT (CENTER PUSH)</p>	GO appears after SJET display.	Do table 2, WP012 00.
<p>c. On aircraft controller grip assembly, press A/G weapon release switch.</p>	GO appears after PCKL display.	On 161353 THRU 161519 BEFORE F18 AFC 27, do table 3 (WP012 00). On 161920 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 27, do table 4 (WP012 00).
<p>d. On aircraft controller grip assembly, press gun/A/A missile trigger switch.</p>	GO appears after TRIG display.	On 161353 THRU 161519 BEFORE F18 AFC 27, do table 1 (WP013 00). On 161520 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 27, do table 4 (WP013 00).
<p>e. On flaps, landing gear and stores indicator panel, press CTR, LI, RI, LO, and RO switches to on.</p>	<p>1. GO appears after SSP display.</p> <p>2. Switch lights come on.</p>	<p>Do table 2 (WP013 00).</p> <p>1. If all lights remain off, trouble-shoot lighting power to 52P-H084 pin 10 using Cockpit Flap/Station Select Lights Schematic (A1-F18AC-440-500, WP006 00).</p> <p>2. Replace Flaps, Landing Gear and Stores Indicator Panel (A1-F18AC-740-300) WP014 00).</p>
<p>f. On RDDI, press STOP pushbutton switch.</p>		
<p>g. On flaps landing gear and stores indicator panel, press CTR, LI, RI, LO, and RO switches to off.</p>	CTR, LI, RI, LO, and RO switch lights go out.	Replace Flaps, Landing Gear and Stores Indicator Panel (A1-F18AC-740-300, WP014 00).

Table 1. Maintenance Built-In Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>h. On RDDI,  press BIT pushbutton switch.</p> <p>i. On RDDI,  press MENU pushbutton switch, or  press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>j. On RDDI, press STORES pushbutton switch.</p> <p>k. On master arm control panel assembly, set MASTER switch to SAFE.</p> <p>l. On LDDI and RDDI, set power switch to OFF.</p> <p>m. Remove electrical power (A1-F18AC-LMM-000).</p> <p>n. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell.</p>	<p>BIT control display appears on RDDI.</p> <p>Menu display appears on RDDI.</p> <p>1. Stores display appears on RDDI.</p> <p>2. Gun BIT status display is blank.</p> <p>3. ARM is displayed on RDDI.</p> <p>4. No weapon displays are indicated at weapon station locations.</p> <p>1. SAFE is displayed on RDDI.</p> <p>2. ARMAMENT OVERRIDE switch disengages.</p> <p>Indicator is black.</p>	<p>Replace RDDI.</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>If gun BIT status is FAIL or DEGD, read maintenance code(s) in nose wheelwell or in cockpit and do table 1 (WP010 00).</p> <p>Do table 1 (WP010 17).</p> <p>Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>1. Do table 2 (WP010 17).</p> <p>2. Do table 3, (WP010 17).</p> <p>Read and record maintenance code(s) on nose wheelwell DDI or on cockpit DDI. If maintenance code 006 or 017 is displayed, do table 1 (WP010 00).</p>
<p style="text-align: center;"><b>LEGEND</b></p> <p> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		



MENU DISPLAY



BIT CONTROL DISPLAY

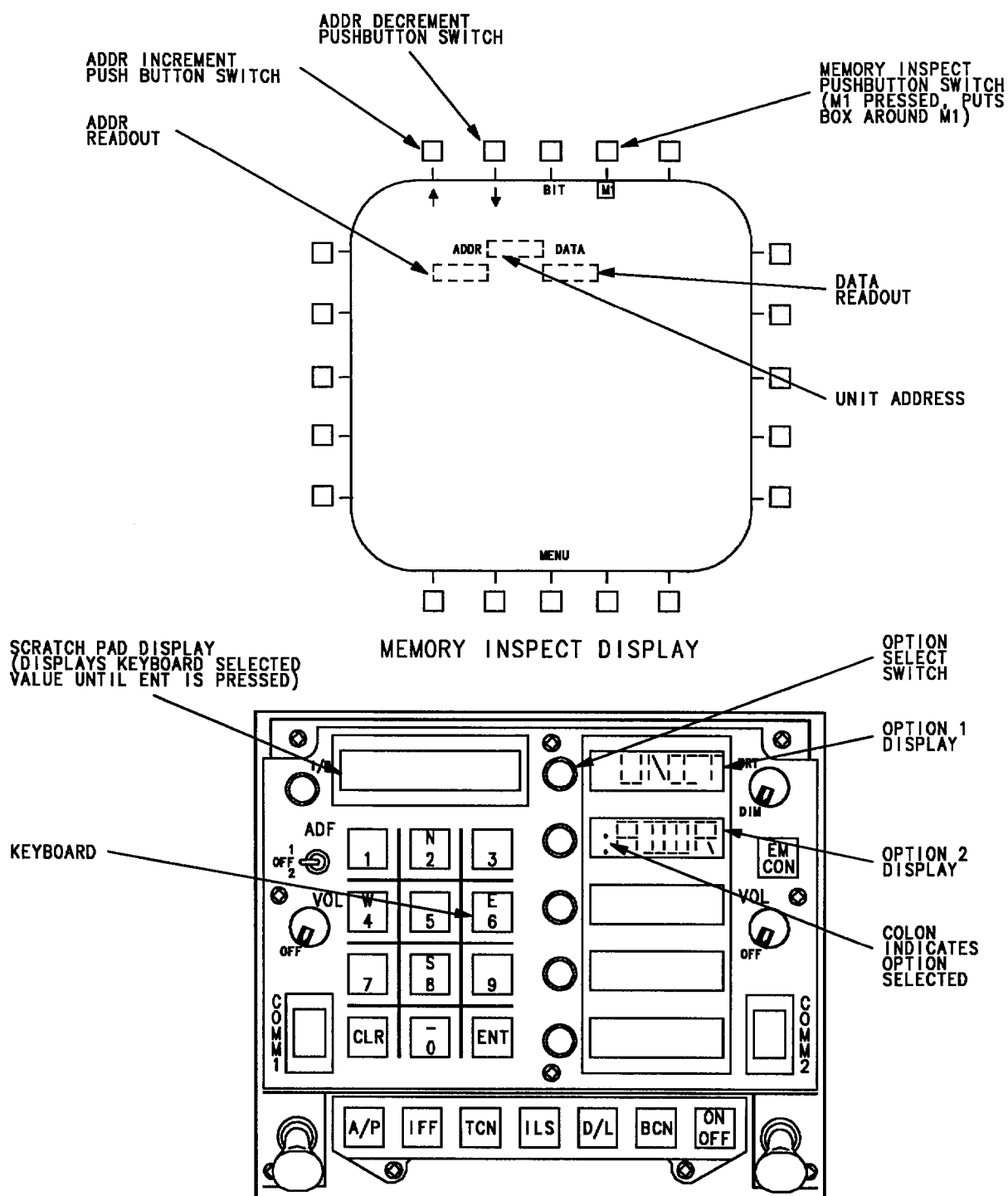
LEGEND

1 DISPLAYED WHEN ONLY AMRAAM (NO HARM) MISSILES ARE LOADED ABOARD AIRCRAFT  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B

01100101

Figure 1. Stores Management System Maintenance BIT Displays (Sheet 1)





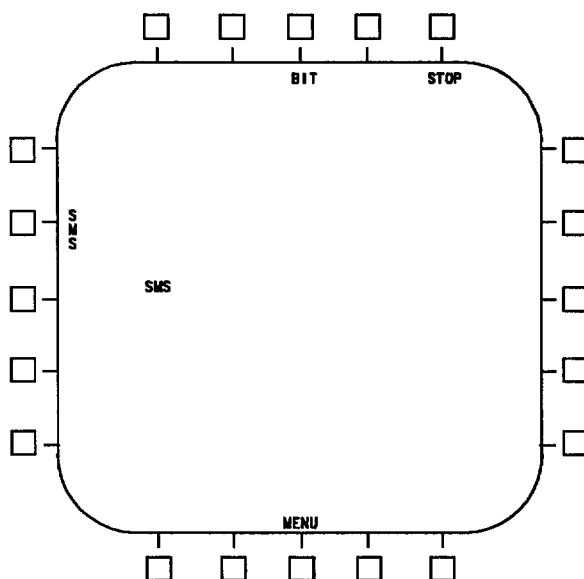
ELECTRONIC EQUIPMENT CONTROL C-10380/ASQ

F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B



01100102

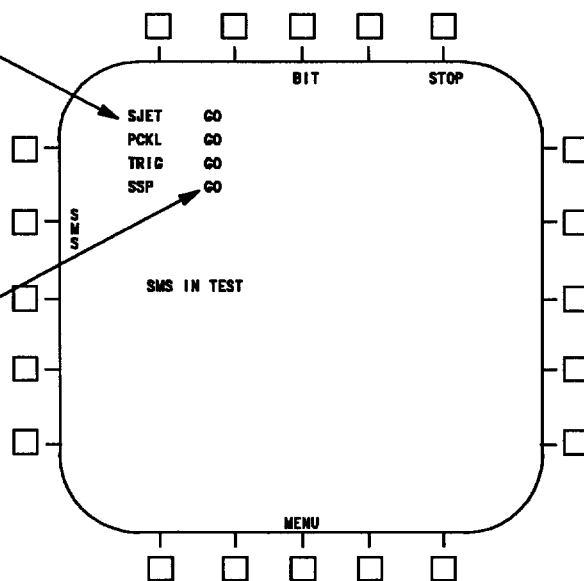
Figure 1. Stores Management System Maintenance BIT Displays (Sheet 2)



MAINTENANCE BIT CONTROL DISPLAY

SWITCH DISPLAYS  
APPEAR AFTER  
INITIATED BIT  
IS COMPLETED

GO APPEARS AFTER  
ALL FUNCTIONS OF  
THE SWITCH ARE  
COMPLETED

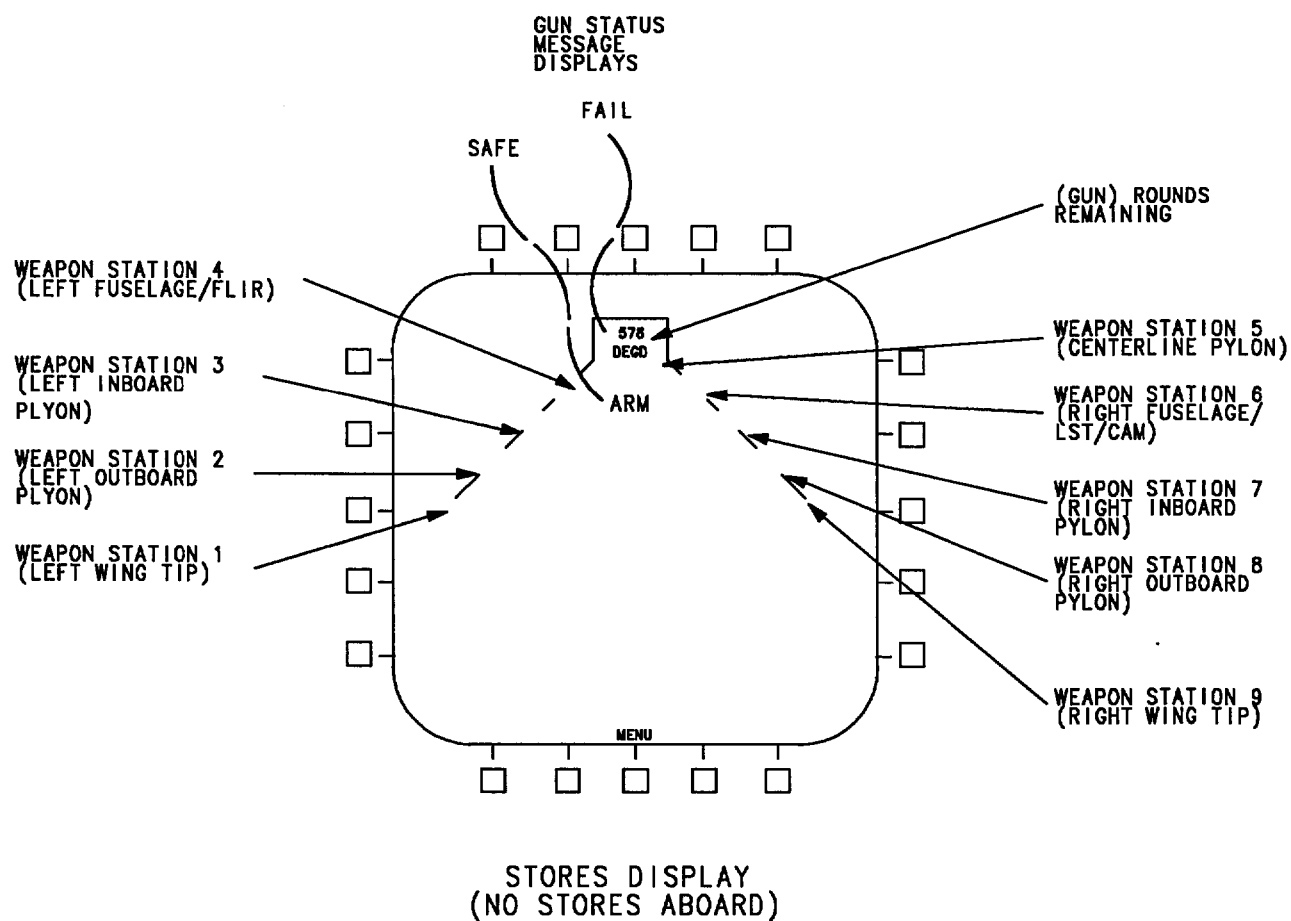


MAINTENANCE BIT CONTROL DISPLAY-SMS SELECTED

F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B



Figure 1. Stores Management System Maintenance BIT Displays (Sheet 3)

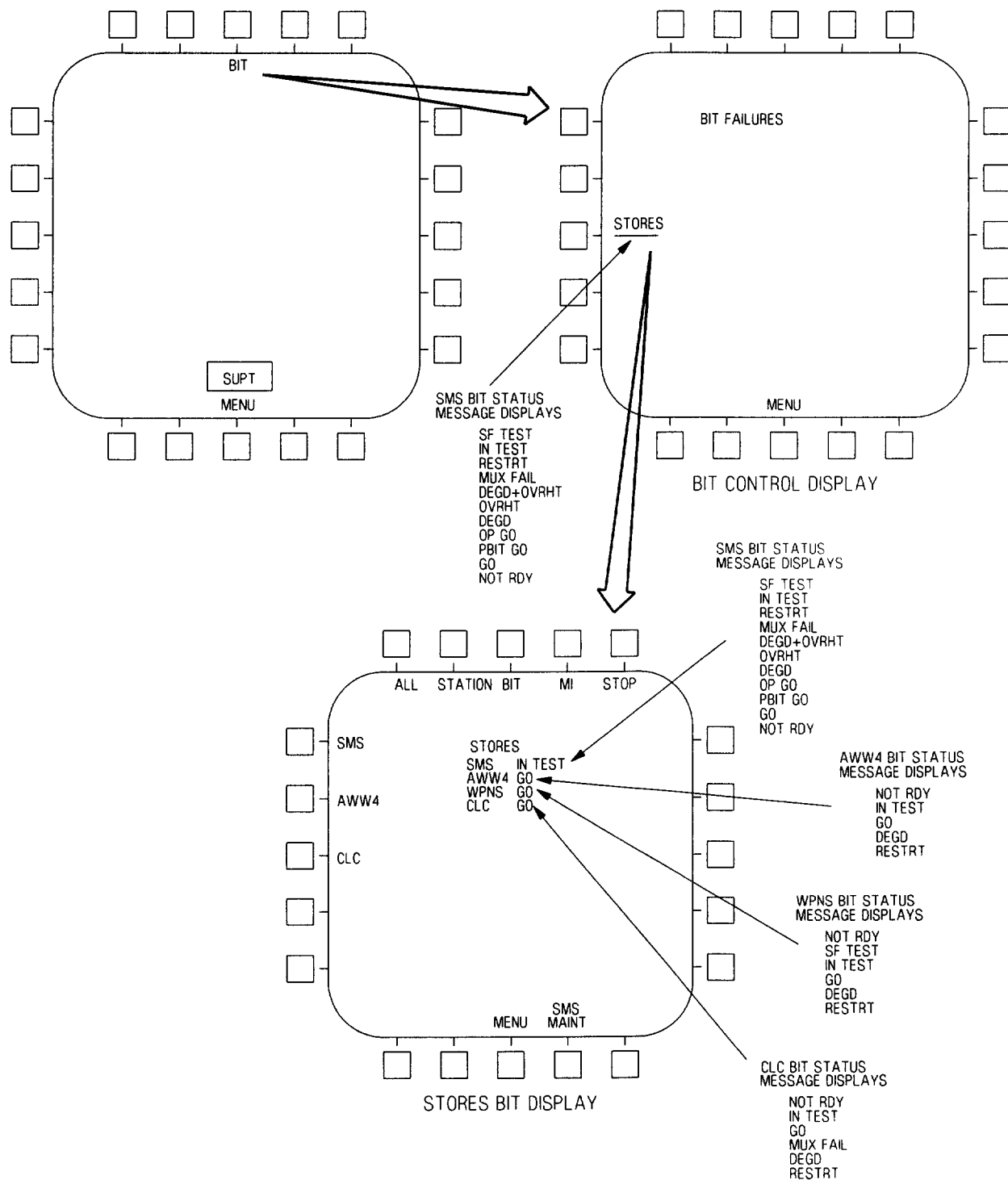


F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.



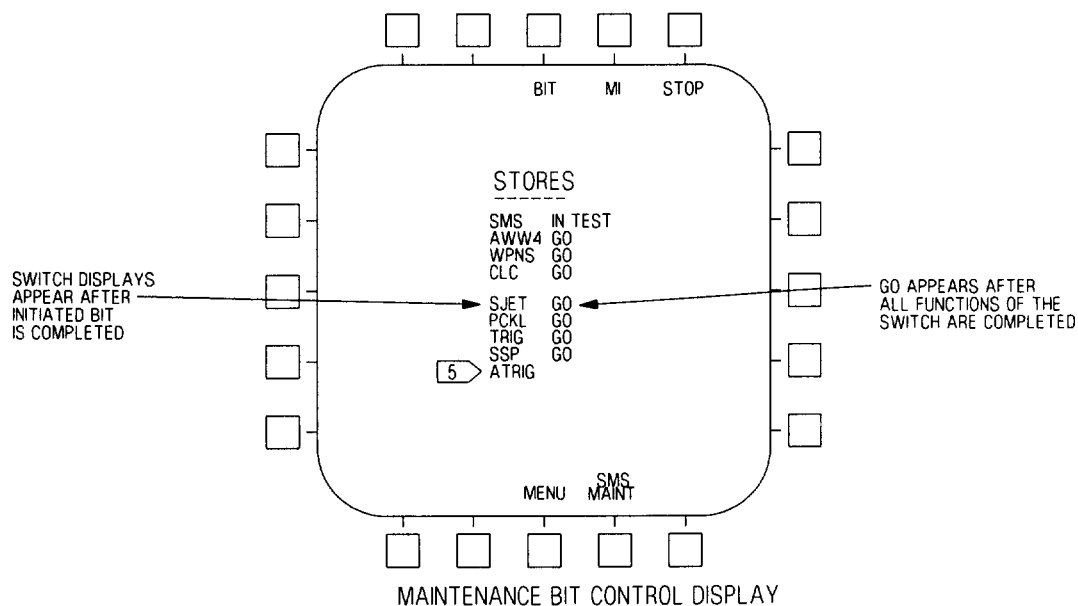
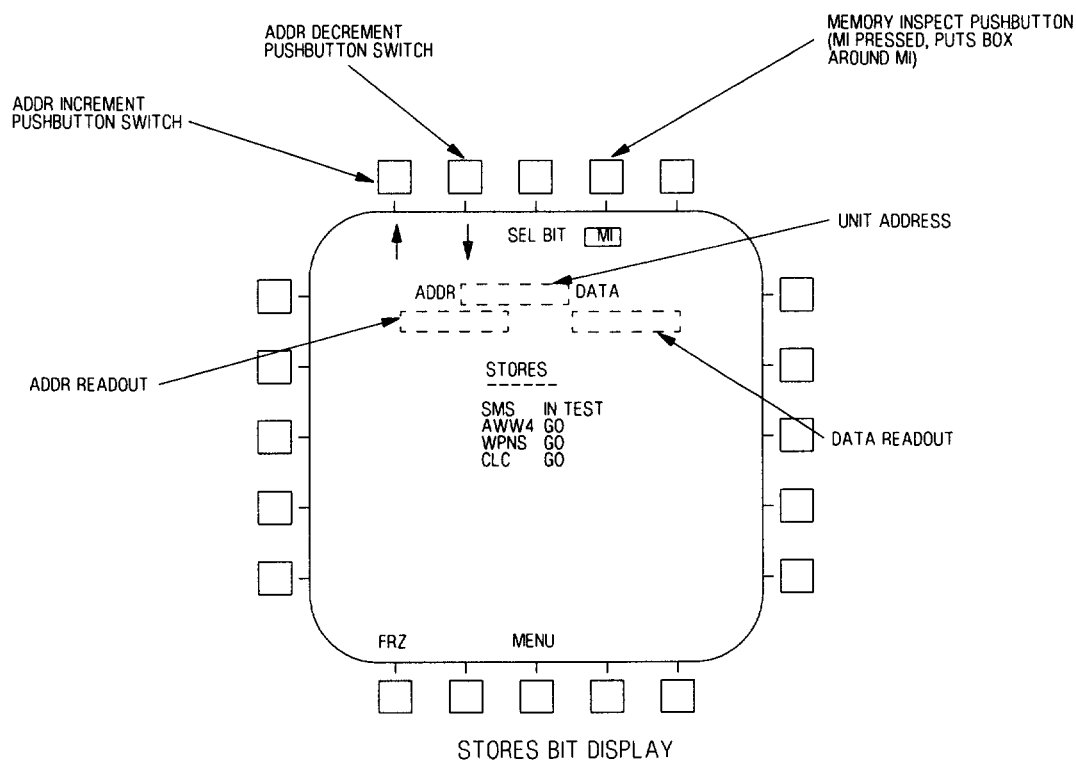
Figure 1. Stores Management System Maintenance BIT Displays (Sheet 4)

01100104



F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.

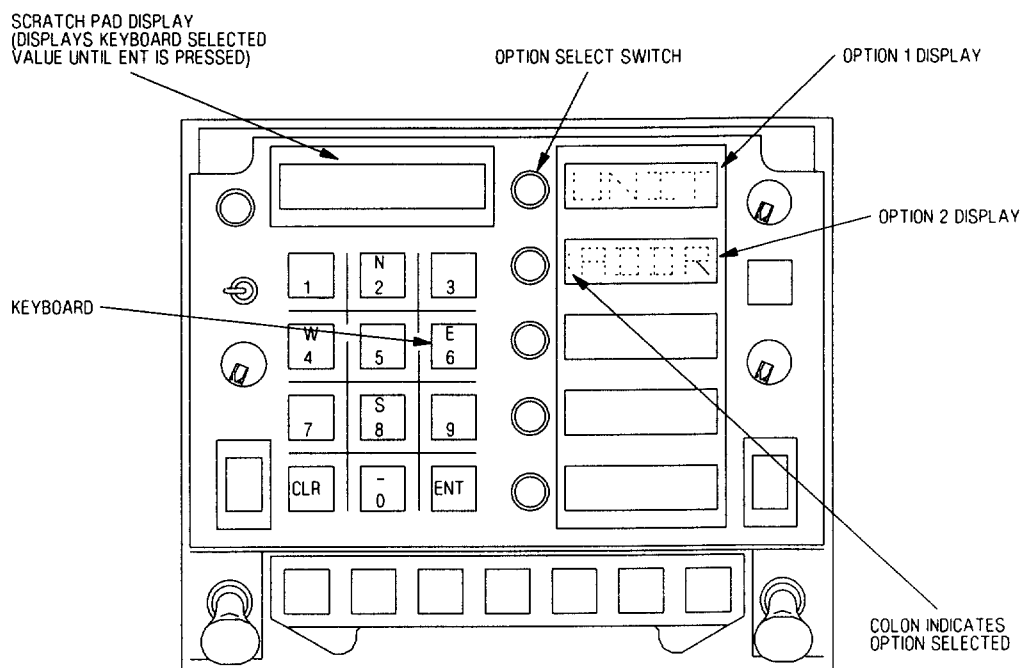
Figure 2. Stores Management System Maintenance BIT Displays (Sheet 1)



F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.

01100202

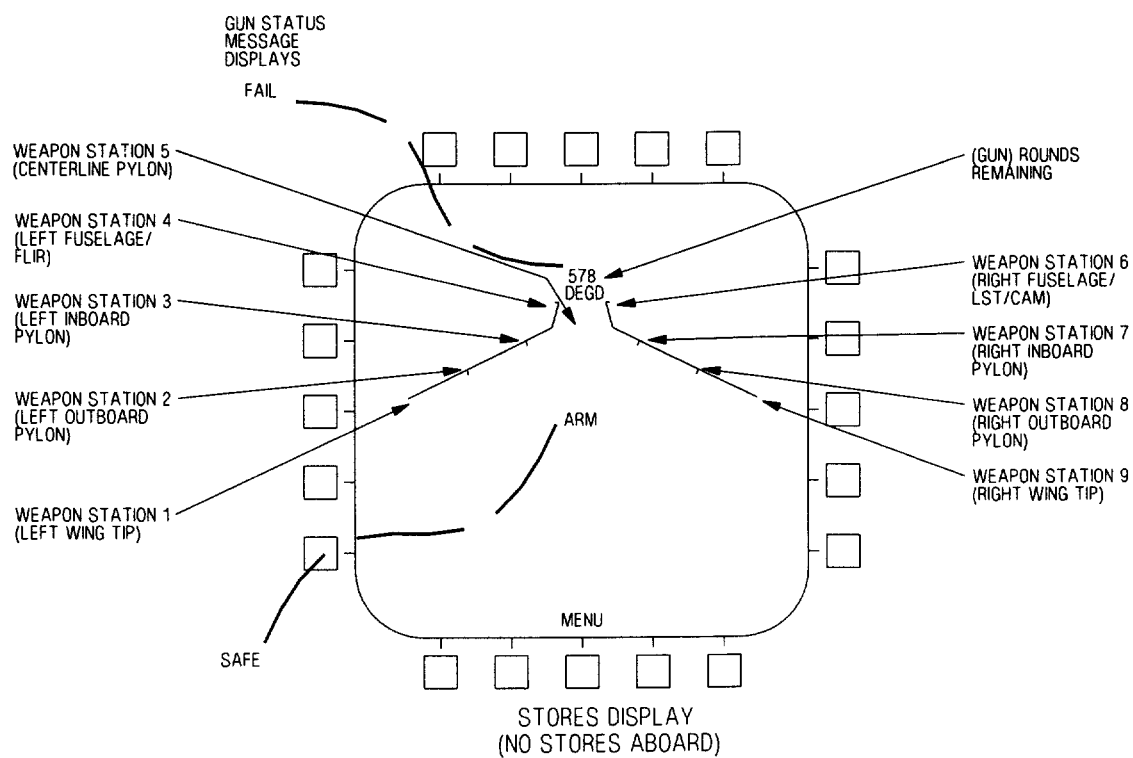
**Figure 2. Stores Management System Maintenance BIT Displays (Sheet 2)**



## ELECTRONIC EQUIPMENT CONTROL

F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.

Figure 2. Stores Management System Maintenance BIT Displays (Sheet 3)



F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.

Figure 2. Stores Management System Maintenance BIT Displays (Sheet 4)





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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**TROUBLESHOOTING - MAINTENANCE BUILT-IN TEST PART 1**  
**STORES MANAGEMENT SYSTEM**

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**Reference Material**

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
Line Maintenance Access Doors ..... A1-F18AC-LMM-010

**Alphabetical Index**

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**Record of Applicable Technical Directives**

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 27	-	Leading Edge Flap/Control Stick Changes (ECP MDA-F/A-18A-00044)	15 Jun 86	ECP Coverage only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, In- corporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**Table 1. ARMAMENT OVERRIDE Switch Will Not Remain Engaged**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 1. ARMAMENT OVERRIDE Switch Will Not Remain Engaged****Support Equipment Required****Table 1. ARMAMENT OVERRIDE Switch Will Not Remain Engaged (Continued)****NOTE**

Master Arm Schematic (A1-F18AC-740-500, WP016 00) may be used as an aid when doing this procedure.

Component locations are shown in WP007 00.

Malfunction is caused by one of the items listed below:

Aircraft Wiring  
 ARMAMENT OVERRIDE Switch  
 LDG GEAR Control  
 Master Arm Control Panel Assembly  
 No. 7 Circuit Breaker/Relay Panel Assembly

**Procedure****No****Yes**

To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.

**NOTE**

The question used in logic tree “Does continuity exist” means to test for the items listed below:

1. Pin to pin test per procedural step.
2. Shorts to ground.
3. Shorts between surrounding pins on connectors.
4. Shorts between shield and conductors.
5. Shield continuity.

a. Do substeps listed below:

- (1) Make sure electrical power is off (A1-F18AC-LMM-000).
- (2) On LDG GEAR control, make sure LDG GEAR control handle is set to DN.
- (3) On master arm control panel assembly, make sure MASTER switch is set to ARM.
- (4) Open door 14R (A1-F18AC-LMM-010).
- (5) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).
- (6) Turn on electrical power (A1-F18AC-LMM-000).

**Table 1. ARMAMENT OVERRIDE Switch Will Not Remain Engaged (Continued)**

Procedure	No	Yes
(7) On nose wheelwell maintenance panel, hold ARMAMENT OVERRIDE switch to OVERRIDE.		
(8) Does 28vdc exist from 61P-F001B pin 120 to aircraft ground? . . . . .	g	b
b. Do substeps listed below:		
(1) Open door 10L (A1-F18AC-LMM-010).		
(2) Is wire A1083A22N connected to ground point 4 at GND2-C005? . . . . .	f	c
c. Do substeps listed below:		
(1) Open door 11L (A1-F18AC-LMM-010).		
(2) Get access to splices in splice point WTC001 (A1-F18AC-740-300, WP018 00).		
(3) Locate the splice point with the A231( ) wires leading into it and remove splice cover.		
(4) Inspect splice point. Is wire A231B22 properly connected to splice point? . . . . .	e	d
d. Replace ARMAMENT OVERRIDE switch (A1-F18AC-740-300, WP018 00) and do step s . . . . .	-	-
e. Replace splice with the A231( ) wires leading into it (A1-F18A( )-WRM-000) and do step s . . . . .	-	-
f. Isolate defective wiring (A1-F18A( )-WDM-000) and do step s . . . . .	-	-
g. While holding ARMAMENT OVERRIDE switch to OVERRIDE, does 28vdc exist from 61P-F001B pin 80 to aircraft ground? . . . . .	h	k
h. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C057D from no. 7 circuit breaker/relay panel assembly.		
(4) On nose wheelwell maintenance panel, hold ARMAMENT OVERRIDE switch to OVERRIDE.		
(5) Does continuity exist from 61P-F001B pin 80 to 52P-C057D pin 51? . . . . .	i	j
i. Isolate defective wire A1077( ) (A1-F18A( )-WDM-000) and do step s . . . . .	-	-
j. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and 61CBC154 (A1-F18AC-420-300, WP027 00) and do step s . . . . .	-	-
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		

Table 1. ARMAMENT OVERRIDE Switch Will Not Remain Engaged (Continued)

Procedure	No	Yes
(2) Remove master arm control panel assembly (A1-F18AC-740-300, WP013 00).		
(3) On nose wheelwell maintenance panel, hold ARMAMENT OVERRIDE switch to OVERRIDE.		
(4) Does continuity exist from 61P-F001B pin 120 to 52P-H075 pin 1? .....	l	m
l. Do substeps listed below:		
(1) Open door 11L (A1-F18AC-LMM-010).		
(2) Get access to splices in splice point WTC001.		
(3) Locate splices with the A231( ) and A1082( ) wires leading into them and remove splice covers.		
(4) Does continuity exist from:		
Splice with A1082( ) wires to 52P-H075 pin 1		
Splice with A231( ) wires to 61P-F001B pin 120? .....	f	d
m. Do substeps listed below:		
(1) Open door 10L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-C057D from no. 7 circuit breaker/relay panel assembly.		
(3) Does continuity exist from 52P-C057D pin 51 to 52P-H075 pin 28? .....	o	n
n. Replace master arm control panel assembly (A1-F18AC-740-300, WP013 00) and do step s .....	-	-
o. Do substeps listed below:		
(1) Remove LDG GEAR control (A1-F18AC-130-300, WP004 00).		
(2) Does continuity exist from:		
52P-C057D pin 51 to 12P-H008 pin 37		
52P-H075 pin 28 to 12P-H008 pin 36? .....	f	p
p. Replace LDG GEAR control (A1-F18AC-130-300, WP004 00) and do step s .....	-	-
q. Do substeps below:		
(1) Remove master arm control panel assembly (A1-F18AC-740-300, WP013 00).		
(2) On nose wheelwell maintenance panel, hold ARMAMENT OVERRIDE switch to OVERRIDE.		
(3) Does continuity exist between 52P-H075 pin 3 and 52P-C057D pin 51? .....	r	n
r. Does continuity exist between 52P-H075 pin 28 and 52P-C057D pin 51? .....	i	d

**Table 1. ARMAMENT OVERRIDE Switch Will Not Remain Engaged (Continued)**

Procedure	No	Yes
s. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Master arm control panel assembly		
(2) LDG GEAR control		
(3) 61P-F001B		
(4) 52P-C057D		
(5) 52P-H075		
(6) Door 10L		
(7) Door 11L		
(8) Door 14R		
(9) Splice point WTC001		
(10) Master arm control panel assembly, MASTER switch to SAFE. ....	-	-

**Table 2. SELECT JETT Switch Fail**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wiring	
Armament Computer CP-1342/AYQ-9(V)	
LH Vertical Console Control Panel	

Table 2. SELECT JETT Switch Fail (Continued)+



Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on conductors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) On left hand vertical console control panel, set SELECT JETT switch to L FUS MSL.		
(5) Does continuity exist from 61P-F001B pin 111 to aircraft ground? .....	g	b
b. Set SELECT JETT switch to R FUS MSL. Does continuity exist from 61P-F001B pin 126 to aircraft ground? .....	j	c
c. Set SELECT JETT switch to RACK LCHR. Does continuity exist from 61P-F001B pin 127 to aircraft ground? .....	k	d
d. Set SELECT JETT switch to STORES. Does continuity exist from 61P-F001B pin 81 to aircraft ground? .....	l	e
e. Press and hold JETT on SELECT JETT switch. Does continuity exist from 61P-F001B pin 47 to pin 74? .....	m	f
f. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step o .....	-	-
g. Do substeps listed below:		

Table 2. SELECT JETT Switch Fail (Continued)+

Procedure	No	Yes
(1) Remove LH vertical console control panel (A1-F18AC-130-300, WP063 00).		
(2) Does continuity exist from 52P-H077A pin 29 to 61P-F001B pin 111? .....	i	h
h. Does continuity exist from 52P-H077A pin 36 to aircraft ground? .....	i	n
i. Isolate defective aircraft wiring (A1-F18A( )-WDM-OOO) and do step o .....	-	-
j. Do substeps listed below:		
(1) Remove LH vertical console control panel (A1-F18AC-130-300, WP063 00).		
(2) Does continuity exist from 52P-H077A pin 19 to 61P-F001B pin 126? .....	i	n
k. Do substeps listed below:		
(1) Remove LH vertical console control panel (A1-F18AC-130-300, WP063 00).		
(2) Does continuity exist from 52P-H077A pin 26 to 61P-F001B pin 127? .....	i	n
l. Do substeps listed below:		
(1) Remove LH vertical console control panel (A1-F18AC-130-300, WP063 00).		
(2) Does continuity exist from 52P-H077A pin 35 to 61P-F001B pin 81? .....	i	n
m. Do substeps listed below:		
(1) Remove LH vertical console control panel (A1-F18AC-130-300, WP063 00).		
(2) Does continuity exist from:		
61P-F001B pin 74 to 52P-H077A pin 21	i	n
61P-F001B pin 47 to 52P-H077A pin 16? .....		
n. Replace LH vertical console control panel (A1-F18AC-130-300, WP063 00) and do step o .....	-	-
o. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-F001B		
(2) LH vertical console control panel		
(3) Door 14R .....	-	-

**Table 3. A/G Weapon Release Switch Fail - 161353 THRU 161519 BEFORE  
F18 AFC 27**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Controller Grip Assembly Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Control Stick Sensor DT-601/ASW-44		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p>		



**Table 3. A/G Weapon Release Switch Fail - 161353 THRU 161519 BEFORE  
F18 AFC 27**

Procedure	No	Yes
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) Press and hold A/G weapon release switch on aircraft controller grip assembly.		
(5) Does continuity exist from 61P-F001B pin 47 to pin 84? .....	d	b
b. Release A/G weapon release switch. Does continuity exist from 61P-F001B pin 47 to pin 84? .....	c	d
c. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step j .....	-	-
d. Do substeps listed below:		
(1) Remove Control Stick Sensor DT-601/ASW-44 (A1-F18AC-570-300, WP005 00).		
(2) Does continuity exist from:		
84P-J037 pin 46 to 61P-F001B pin 47		
84P-J037 pin 71 to 61P-F001B pin 84? .....	i	e
e. Do substeps listed below:		
(1) Connect 61P-F001B.		
(2) Remove aircraft controller grip assembly from Control Stick Sensor DT-601/ASW-44 (A1-F18AC-570-300, WP005 00).		
(3) Does continuity exist from connector P1 pin 12 to pin 13 on aircraft controller grip assembly? .....	f	g
f. Press and hold A/G weapon release switch on aircraft controller grip assembly. Does continuity exist from connector P1 pin 12 to pin 13? .....	g	h
g. Replace aircraft controller grip assembly (A1-F18AC-570-300, WP005 00) and do step j .....	-	-
h. Replace Control Stick Sensor DT-601/ASW-44 (A1-F18AC-570-300, WP005 00) and do step j .....	-	-
i. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step j .....	-	-
j. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Control Stick Sensor DT-601/ASW-44		
(2) Aircraft controller grip assembly		

**Table 3. A/G Weapon Release Switch Fail - 161353 THRU 161519 BEFORE F18 AFC 27 (Continued)**

Procedure	No	Yes
(3) 61P-F001B		
(4) Door 14R .....	-	-

**Table 4. A/G Weapon Release Switch Fail - 161520 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 27**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77AN	Multimeter	
Materials Required		
None		
NOTE		
Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Controller Grip Assembly Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Control Stick Grip Adapter Assembly		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

**Table 4. A/G Weapon Release Switch Fail - 161520 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 27**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) Press and hold A/G weapon release switch on aircraft controller grip assembly.		
(5) Does continuity exist from 61P-F001B pin 47 to pin 84? .....	d	b
b. Release A/G weapon release switch. Does continuity exist from 61P-F001B pin 47 to pin 84? .....	c	d
c. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18A-740-300, WP006 00) and do step j .....	-	-
d. Do substeps listed below:		
(1) Remove control stick grip adapter assembly (A1-F18AC-570-300, WP062 00).		
(2) Does continuity exist from:		
84P-J037 pin 36 to 61P-F001B pin 47		
84P-J037 pin 31 to 61P-F001B pin 84? .....	i	e
e. Do substeps listed below:		
(1) Connect 61P-F001B.		
(2) Remove aircraft controller grip assembly from control stick grip adapter assembly (A1-F18AC-570-300, WP062 00).		
(3) Does continuity exist from connector P1 pin 12 to pin 13 on aircraft controller grip assembly? .....	f	g

**Table 4. A/G Weapon Release Switch Fail - 161520 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 27 (Continued)**

Procedure	No	Yes
f. Press and hold A/G weapon release switch on aircraft controller grip assembly. Does continuity exist from connector P1 pin 12 to pin 13? . . . . .	g	h
g. Replace aircraft controller grip assembly (A1-F18AC-570-300, WP005 00) and do step j . . . . .	-	-
h. Replace control stick grip adapter assembly (A1-F18AC-570-300, WP062 00) and do step j . . . . .	-	-
i. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step j . . . . .	-	-
j. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Control stick grip adapter assembly		
(2) Aircraft controller grip assembly		
(3) 61P-F001B		
(4) Door 14R . . . . .	-	-

**Table 5. Cage/Uncage Switch Inoperative - F/A-18A**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Armament Computer Input/Output Interface Schematic may be used as an aid when doing this procedure (A1-F18AC-740-500, WP011 00).	
Component locations are shown in WP007 00.	
Memory inspect data for this procedure is provided in WP010 19.	

**Table 5. Cage/Uncage Switch Inoperative - F/A-18A (Continued)**


Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 1 Right Throttle Grip		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
a. Do substeps below:		
(1) Using unit address 28, memory inspect address for ref code IWDCUC (table 3, WP010 19).		
(2) On forward right throttle grip, press and hold cage/uncage switch.		
(3) On RDDI, is DATA readout XXXX (1, 3, 5, or 7)X? .....	b	g
b. Do substeps below:		
(1) Release cage/uncage switch.		
(2) Turn off electrical power (A1-F18AC-LMM-000).		
(3) Open door 14R (A1-F18AC-LMM-010).		
(4) Disconnect 61P-F001B from J2 on Armament Computer CP-1342/AYQ-9(V).		
(5) On forward right throttle grip press and hold cage/uncage switch.		
(6) Does continuity exist from 61P-F001B pin 119 to aircraft ground? .....	c	f

Table 5. Cage/Uncage Switch Inoperative - F/A-18A

Procedure	No	Yes
c. Do substeps below:		
(1) Open Internal Door CPP (A1-F18AC-LMM-010).		
(2) Disconnect right throttle grip from 52J-H048.		
(3) Does continuity exist between:		
52J-H048 pin 36 to 61P-F001B pin 119		
52J-H048 pin 37 to aircraft ground? .....	d	e
(4) Inspect splice point. Is wire A231B22 properly connected to splice point? .....	e	d
d. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step h. ....	-	-
e. Replace right throttle grip (A1-F18AC-270-300, WP088 00). Do step h. ....	-	-
f. Replace Armament Computer CP-1342/AYQ-9(V) A1-F18AC-740-300, WP006 00). Do step h. ....	-	-
g. Replace Digital Data Computer No. 1 (A1-F18AC-741-300, WP003 00). Do step h. ....	-	-
h. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) Armament Computer CP-1342/AYQ-9(V)		
(2) Digital Data Computer No. 1		
(3) Internal Door CPP		
(4) Right throttle grip		
(5) 52J-H048		
(6) 61P-F001B		
(7) Door 14R .....	-	-

Table 6. Cage/Uncage Switch Inoperative - F/A-18B


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Armament Computer Input/Output Interface Schematic may be used as an aid when doing this procedure (A1-F18AC-740-200, WP011 00).		
Component locations are shown in WP007 00.		
Memory inspect data for this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 1 Rear Right Throttle Grip Right Throttle Grip		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;">NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps below:</p>		

Table 6. Cage/Uncage Switch Inoperative - F/A-18B (Continued)

Procedure	No	Yes
(1) If only rear right throttle grip is inoperative, do step n.		
(2) If only forward right throttle grip is inoperative, do step m.		
(3) If both forward and rear right throttle grips are inoperative, do step b . . . . .	-	-
b. Do substeps below:		
(1) Using unit address 28, memory inspect address for ref code IWDCUC (table 3, WP010 19)		
(2) On rear right throttle grip, press and hold cage/uncage switch.		
(3) On RDDI, is DATA readout XXXX(1, 3, 5, or 7)X?. . . . .	c	g
c. Do substeps below:		
(1) Release cage/uncage switch.		
(2) Turn off electrical power (A1-F18AC-LMM-000).		
(3) Open door 14R (A1-F18AC-LMM-010).		
(4) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V)		
(5) Press and hold rear cage/uncage switch.		
(6) Does continuity exist from 61P-F001B pin 119 to aircraft ground? . . . . .	d	g
d. Do substeps below:		
(1) Open Internal Door CPN (A1-F18AC-LMM-010)		
(2) Disconnect rear right throttle grip from 52J-K302.		
(3) Does continuity exist between:		
52J-K302 pin 36 to 61P-F001B pin 119		
52J-K302 pin 37 to aircraft ground? . . . . .	e	f
e. Isolate defective aircraft wiring (A1-F18( )-WDM-000). Do step o . . . . .	-	-
f. Replace right throttle grip (A1-F18AC-270-300, WP088 00). Do step o . . . . .	-	-
g. Do substeps below:		
(1) Using unit address 28, memory inspect address for ref code IWDCUC (table 3, WP010 19).		
(2) On right throttle grip, press and hold cage/uncage switch.		



Table 6. Cage/Uncage Switch Inoperative - F/A-18B (Continued)

Procedure	No	Yes
(3) Was DATA readout XXXX (1, 3, 5, or 7)X? .....	h	l
h. Do substeps below:		
(1) Release cage/uncage switch.		
(2) Turn off electrical power (A1-F18AC-LMM-000).		
(3) Open door 14R (A1-F18AC-LMM-010).		
(4) Disconnect 61P-F001B from J2 or Armament Computer CP-1342/AYQ-9(V).		
(5) On right throttle grip, press and hold cage/uncage switch.		
(6) Does continuity exist from 61P-F001B pin 119 to aircraft ground? .....	i	k
i. Do substeps below:		
(1) Open Internal Door CPP (A1-F18AC-LMM-010).		
(2) Disconnect right throttle grip from 52J-H048.		
(3) Does continuity exist between:		
52J-H048 pin 36 to 61P-F001B pin 119		
52J-H048 pin 37 to aircraft ground? .....	e	j
j. Replace right throttle grip (A1-F18AC-270-300, WP088 00). Do step o .....	-	-
k. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-741-300, WP006 00). Do step o .....	-	-
l. Replace Digital Data Computer No. 1 (A1-F18AC-741-300, WP003 00). Do step o .....	-	-
m. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) Disconnect right throttle grip from 52J-H048.		
(5) Does continuity exist between:		
52J-H048 pin 36 to 61P-F001B pin 119		
52J-H048 pin 37 to aircraft ground? .....	e	j
n. Do substeps below:		

**Table 6. Cage/Uncage Switch Inoperative - F/A-18B (Continued)**

Procedure	No	Yes
(1) Turn off electrical power (A1-F18AC-LMM-000). (2) Open door 14R (A1-F18AC-LMM-010). (3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V) (4) Disconnect rear right throttle grip from 52J-K302. (5) Does continuity exist between: 52J-K302 pin 36 to 61P-F001B pin 119 52J-K302 pin 37 to aircraft ground? .....	e	f
o. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) Armament Computer CP-1342/AYQ-9(V)		
(2) Digital Display Computer No. 1		
(3) Internal Door CPN		
(4) Internal Door CPP		
(5) Rear right throttle grip		
(6) Right throttle grip		
(7) 52J-H048		
(8) 52J-K302		
(9) 61P-F001B		
(10) Door 14R .....	-	-

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**ORGANIZATIONAL MAINTENANCE  
TESTING AND TROUBLESHOOTING  
TROUBLESHOOTING - MAINTENANCE BUILT-IN TEST PART 2  
STORES MANAGEMENT SYSTEM**

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**Reference Material**

Line Maintenance Procedures. . . . . A1-F18AC-LMM-000  
Line Maintenance Access Doors. . . . . A1-F18AC-LMM-010

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**Record of Applicable Technical Directives**

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 27	-	Leading Edge Flap/Control Stick Changes (ECP MDA-F/A-18A-00044)	15 Jun 86	ECP Coverage only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**Table 1. GUN/A/A Missile Trigger Switch Fail - 161353 THRU 161519 BEFORE  
F18 AFC 27**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 1. GUN/A/A Missile Trigger Switch Fail - 161353 THRU 161519 BEFORE F18 AFC 27 (Continued)**

NOTE		
<p>Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) may used as an aid when doing this procedure.</p> <p>Component Locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Controller Grip Assembly Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Control Stick Sensor DT-601/ASW-44</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) Does continuity exist from 61P-F001B pin 47 to pin 61? .....	b	d
b. Press and hold gun/A/A missile trigger to second detent (fully pressed). Does continuity exist from 61P-F001B pin 47 to pin 61? .....	d	c
c. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step j .....	-	-

**Table 1. GUN/A/A Missile Trigger Switch Fail - 161353 THRU 161519 BEFORE  
F18 AFC 27 (Continued)**

Procedure	No	Yes
d. Do substeps listed below:		
(1) Remove Control Stick Sensor DT-601/ASW-44 (A1-F18AC-570-300, WP005 00).		
(2) Does continuity exist from:		
84P-J037 pin 27 to 61P-F001B pin 47		
84P-J037 pin 7 to 61P-F001B pin 61? .....	i	e
e. Do substeps listed below:		
(1) Remove aircraft controller grip assembly from Control Stick Sensor DT-601/ASW-44 (A1-F18AC-570-300, WP005 00)		
(2) Does continuity exist from connector P1 pin 26 to pin 11 on aircraft controller grip assembly? .....	f	g
f. Press and hold gun/A/A missile trigger to second detent. Does continuity exist from connector P1 pin 26 to pin 11 on aircraft controller grip assembly? .....	g	h
g. Replace aircraft controller grip assembly (A1-F18AC-570-300, WP005 00) and do step j .....	-	-
h. Replace Control Stick Sensor DT-601/ASW-44 (A1-F18AC-570-300, WP005 00) and do step j .....	-	-
i. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step j .....	-	-
j. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Control Stick Sensor DT-601/ASW-44		
(2) Aircraft controller grip assembly		
(3) 61P-F001B		
(4) Door 14R .....	-	-


Table 2. JETT STATION SELECT Switches Fail

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Flaps, Landing Gear and Stores Indicator Panel		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"><li>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</li><li>(2) Open door 14R (A1-F18AC-LMM-010).</li></ol>		

Table 2. JETT STATION SELECT Switches Fail (Continued)

Procedure	No	Yes
<p>(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) Press RI, RO, LI, LO, and CTR station select switches to ON on flaps, landing gear and stores indicator panel.</p> <p>(6) Does continuity exist from:</p> <p>61P-F001B pin 121 to aircraft ground</p> <p>61P-F001B pin 112 to aircraft ground</p> <p>61P-F001B pin 113 to aircraft ground</p> <p>61P-F001B pin 114 to aircraft ground</p> <p>61P-F001B pin 128 to aircraft ground? . . . . .</p>	c	b
b. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step h . . . . .	-	-
c. Does continuity exist on any of the pins? . . . . .	d	e
d. Isolate defective aircraft wiring from 52P-H084 pin 22 on flaps, landing gear and stores indicator panel and aircraft ground (A1-F18A( )-WDM-000) and do step h. . . . .	-	-
e. Do substeps listed below:		
<p>(1) Remove flaps, landing gear and stores indicator panel (A1-F18AC-740-300, WP014 00).</p> <p>(2) Does continuity exist from:</p> <p>52P-H084 pin 21 to 61P-F001B pin 121</p> <p>52P-H084 pin 7 to 61P-F001B pin 112</p> <p>52P-H084 pin 19 to 61P-F001B pin 113</p> <p>52P-H084 pin 5 to 61P-F001B pin 114</p> <p>52P-H084 pin 17 to 61P-F001B pin 128? . . . . .</p>	f	g
f. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h . . . . .	-	-
g. Replace flaps, landing gear and stores indicator panel (A1-F18AC-740-300, WP014 00) and do step h. . . . .	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
<p>(1) Flaps, landing gear and stores indicator panel</p> <p>(2) 61P-F001B</p> <p>(3) Door 14R . . . . .</p>	-	-

Table 3. F/A-18A, EMERG JETT Switch Fail


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Material Required		
None		
NOTE		
Emergency Jettison Schematic (A1-F18AC-740-500, WP018 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Master Arm Control Panel Assembly		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div style="display: flex; justify-content: space-between;"><div><p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p><p>(2) Open door 14R (A1-F18AC-LMM-010).</p></div><div style="border-left: 1px solid black; height: 100px; width: 50px;"></div><div style="border-left: 1px solid black; height: 100px; width: 50px;"></div></div>		



**Table 3. F/A-18A, EMERG JETT Switch Fail (Continued)**

(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) Does continuity exist from:		
61P-F001B pin 39 to pin 17 61P-F001B pin 40 to pin 16? .....	d	b
b. Press and hold EMERG JETT switch on master arm control panel assembly. Does continuity exist from:		
61P-F001B pin 39 to pin 16 61P-F001B pin 40 to pin 17? .....	f	c
c. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step g. ....	-	-
d. Do substeps listed below:		
(1) Remove Master Arm Control Panel Assembly (A1-F18AC-740-300, WP013 00).		
(2) Does continuity exist from:		
61P-F001B pin 39 to 62P-H075 pin 26 61P-F001B pin 40 to 52P-H075 pin 34 61P-F001B pin 17 to 52P-H075 pin 9 61P-F001B pin 16 to 52P-H075 pin 10? .....	e	f
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step g. ....	-	-
f. Replace master arm control panel assembly (A1-F18AC-740-300, WP013 00) and do step g. ....	-	-
g. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Master arm control panel assembly		
(2) 61P-F001B		
(3) Door 14R .....	-	-

**Table 4. GUN/A/A Missile Trigger Switch Fail - 161520 AND UP; ALSO 161353  
THRU 161519 AFTER F18 AFC 27**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>  None		
<b>NOTE</b>  Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) may used as an aid when doing this procedure.  Component Locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:  <div style="margin-left: 40px;">             Aircraft Controller Grip Assembly              Aircraft Wiring              Armament Computer CP-1342/AYQ-9(V)              Control Stick Grip Adapter Assembly           </div>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <div style="margin-left: 40px;">             (1) Make sure electrical power is off (A1-F18AC-LMM-000).           </div>		

**Table 4. GUN/A/A Missile Trigger Switch Fail - 161520 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 27 (Continued)**

Procedure	No	Yes
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) Does continuity exist from 61P-F001B pin 47 to pin 61? .....	b	d
b. Press and hold gun/A/A missile trigger to second detent (fully pressed). Does continuity exist from 61P-F001B pin 47 to pin 61? .....	d	c
c. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step j. ....	-	-
d. Do substeps listed below:		
(1) Remove Control Stick Grip Adapter Assembly (A1-F18AC-570-300, WP062 00).		
(2) Does continuity exist from:		
84P-J037 pin 35 to 61P-F001B pin 47		
84P-J037 pin 28 to 61P-F001B pin 61? .....	i	e
e. Do substeps listed below:		
(1) Remove aircraft controller grip assembly from Control Stick Adapter Assembly (A1-F18AC-570-300, WP062 00).		
(2) Does continuity exist between connector P1 pin 26 and pin 11 on aircraft controller grip assembly? .....	f	g
f. Press and hold gun/A/A missile trigger to second detent. Does continuity exist from connector P1 pin 26 to pin 11 on aircraft controller grip assembly? .....	g	h
g. Replace aircraft controller grip assembly (A1-F18AC-570-300, WP005 00) and do step j. ....	-	-
h. Replace Control Stick Grip Adapter Assembly (A1-F18AC-570-300, WP062 00) and do step j. ....	-	-
i. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step j. ....	-	-
j. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Control Stick Adapter Assembly		
(2) Aircraft controller grip assembly		
(3) 61P-F001B		
(4) Door 14R .....	-	-

Table 5. F/A-18B, EMERG JETT Switch Fail


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Emergency Jettison Schematic (A1-F18AC-740-500, WP018 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Master Arm Control Panel Assembly EMERG JETT Panel Assembly		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX1 scale.</p> <p style="text-align: center;"><b>Note</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p>		

Table 5. F/A-18B, EMERG JETT Switch Fail (Continued)

Procedure	No	Yes
<p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(4) Does continuity exist from:</p> <p>61P-F001B pin 39 to pin 17  61P-F001B pin 40 to pin 16? .....</p>	e	b
<p>b. Press and hold EMERG JETT switch on master arm control panel assembly. Does continuity exist from:</p> <p>61P-F001B pin 39 to pin 16  61P-F001B pin 40 to pin 17? .....</p>	g	c
<p>c. Release EMERG JETT switch on master arm control panel assembly. Press and hold EMERG JETT switch on EMERG JETT panel assembly (rear cockpit). Does continuity exist from:</p> <p>61P-F001B pin 39 to pin 16  61P-F001B pin 40 to pin 17? .....</p>	i	d
<p>d. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step k .....</p>	-	-
<p>e. Do substeps listed below:</p> <p>(1) Remove Master Arm Control Panel Assembly (A1-F18AC-740-300, WP013 00).</p> <p>(2) Remove EMERG JETT Panel Assembly (A1-F18AC-740-300, WP017 00).</p> <p>(3) Does continuity exist from:</p> <p>61P-F001B pin 17 to 52P-H075 pin 9  61P-F001B pin 16 to 52P-H075 pin 10  61P-F001B pin 39 to 61P-K237 pin 13  61P-F001B pin 40 to 61P-K237 pin 1  61P-K237 pin 11 to 52P-H075 pin 11  61P-K237 pin 12 to 52P-H075 pin 34? .....</p>	h	f
<p>f. Check internal wiring on Master Arm Control Panel Assembly. Does continuity exist from:</p> <p>52J-H075 pin 10 to 52J-H075 pin 34  52J-H075 pin 9 to 52J-H075 pin 11? .....</p>	j	i
<p>g. Do substeps listed below:</p> <p>(1) Remove Master Arm Control Panel Assembly (A1-F18AC-740-300, WP013 00).</p>		


Table 5. F/A-18B, EMERG JETT Switch Fail (Continued)

Procedure	No	Yes
(2) Does continuity exist from:		
61P-F001B pin 39 to 52P-H075 pin 26		
61P-F001B pin 40 to 52P-H075 pin 12? .....	h	j
h. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step k .....	-	-
i. Replace EMERG JETT panel assembly (A1-F18AC-740-300, WP017 00) and do step k .....	-	-
j. Replace master arm control panel assembly (A1-F18AC-740-300, WP013 00) and do step k .....	-	-
k. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Master arm control panel assembly		
(2) EMERG JETT panel assembly		
(3) 61P-F001B		
(4) Door 14R .....	-	-

Table 6. HARM Sequence/FLIR FOV/ Raid Switch Inoperative - F/A-18A

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Memory inspect data for this procedure is provided in WP010 19.	
Malfunction is caused by one of the items listed below:	
Aircraft Wiring	
Armament Computer CP-1342/AYQ-9(V)	
Digital Data Computer No. 1	
Left Throttle Grip	

Table 6. HARM Sequence/FLIR FOV/ Raid Switch Inoperative - F/A-18A (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p> </div>		
a. Do substeps below:		
(1) Using unit address 28, memory inspect address for ref code IWDSCY (table 3, WP010 19).		
(2) On forward left throttle grip, press and hold HARM sequence/FLIR FOV/raid switch.		
(3) On RDDI, is DATA readout XX (4 or 5) XXX?. . . . .	b	g
b. Do substeps below:		
(1) Release HARM sequence/FLIR FOV/raid switch.		
(2) Turn off electrical power (A1-F18AC-LMM-000).		
(3) Open door 14R (A1-F18AC-LMM-010).		
(4) Disconnect 61P-F001B from J2 on Armament Computer CP-1342/AYQ-9(V).		
(5) On forward left throttle grip press and hold HARM sequence/FLIR FOV/raid switch.		

**Table 6. HARM Sequence/FLIR FOV/ Raid Switch Inoperative - F/A-18A (Continued)**

Procedure	No	Yes
(6) Does continuity exist from 61P-F001B pin 55 to aircraft ground? .....	c	f
c. Do substeps below:		
(1) Open Internal Door CPP (A1-F18AC-LMM-010).		
(2) Disconnect left throttle grip from 52J-H049.		
(3) Does continuity exist between:		
52J-H049 pin 19 to 61P-F001B pin 55		
52J-H049 pin 22 to aircraft ground? .....	d	e
d. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step h. ....	-	-
e. Replace left throttle grip (A1-F18AC-270-300, WP088 00). Do step h. ....	-	-
f. Replace Armament Computer CP-1342/AYQ-9(V) A1-F18AC-740-300, WP006 00). Do step h. ....	-	-
g. Replace Digital Data Computer No. 1 (A1-F18AC-741-300, WP003 00). Do step h. ....	-	-
h. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) Armament Computer CP-1342/AYQ-9(V)		
(2) Digital Data Computer No. 1		
(3) Internal Door CPP		
(4) Left throttle grip		
(5) 52J-H049		
(6) 61P-F001B		
(7) Door 14R .....	-	-



Table 7. HARM Sequence/FLIR FOV/ Raid Switch Inoperative - F/A-18B

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Armament Computer Input/Output Interface Schematic (A1-F18AC-740-200, WP011 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Memory inspect data for this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 1 Rear Left Throttle Grip Left Throttle Grip		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;">NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps below:</p>		

**Table 7. HARM Sequence/FLIR FOV/ Raid Switch Inoperative -F/A-18B (Continued)**

Procedure	No	Yes
(1) If only rear left throttle grip is inoperative, do step n.		
(2) If only forward left throttle grip is inoperative, do step m.		
(3) If both forward and rear left throttle grips are inoperative, do step b. ....	-	-
b. Do substeps below:		
(1) Using unit address 28, memory inspect address for ref code IWDSCY (table 3, WP043 00).		
(2) On rear left throttle grip, press and hold HARM sequence/FLIR FOV/raid switch.		
(3) On RDDI, is DATA readout XX (4 or 5) XXX? .....	c	g
c. Do substeps below:		
(1) Release HARM sequence/FLIR FOV/raid switch.		
(2) Turn off electrical power (A1-F18AC-LMM-000).		
(3) Open door 14R (A1-F18AC-LMM-010).		
(4) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V)		
(5) Press and hold rear HARM sequence/FLIR FOV/raid switch.		
52J-H049 pin 19 to 61P-F001B pin 55 52J-H049 pin 22 to aircraft ground? .....	e	f
j. Replace left throttle grip (A1-F18AC-270-300, WP088 00). Do step o. ....	-	-
k. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-741-300, WP003 00). Do step o. ....	-	-
l. Replace Digital Data Computer No. 1 (A1-F18AC-741-300, WP003 00). Do step o. ....	-	-
m. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) Disconnect left throttle grip from 52J-H049.		
(5) Does continuity exist between:		

Table 7. HARM Sequence/FLIR FOV/ Raid Switch Inoperative -F/A-18B (Continued)

Procedure	No	Yes
52J-H049 pin 19 to 61P-F001B pin 55 52J-H049 pin 22 to aircraft ground? .....	e	j
n. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000). (2) Open door 14R (A1-F18AC-LMM-010). (3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V). (4) Disconnect rear left throttle grip from 52J-K301. (5) Does continuity exist between:		
52J-K301 pin 19 to 61P-F001B pin 55 52J-K301 pin 22 to aircraft ground? .....	e	f
o. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) Armament Computer CP-1342/AYQ-9(V) (2) Digital Display Computer No. 1 (3) Internal Door CPN (4) Internal Door CPP (5) Rear left throttle grip (6) Left throttle grip (7) 52J-H049 (8) 52J-K301 (9) 61P-F001B (10) Door 14R .....	-	-



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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**CONTROLS AND INDICATORS**  
**AIM-7 ILLUMINATION ANTENNA SYSTEM**

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**Reference Material**

None

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**Record of Applicable Technical Directives**

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**1. INTRODUCTION.**

2. This work package shows controls and indicators for testing and troubleshooting of the AIM-7 Illumination Antenna System.

3. For detailed circuit breaker/relay panel zone location data, see A1-F18AC-740-LMM-000.

Table 1. No. 2 Circuit Breaker Panel Assembly

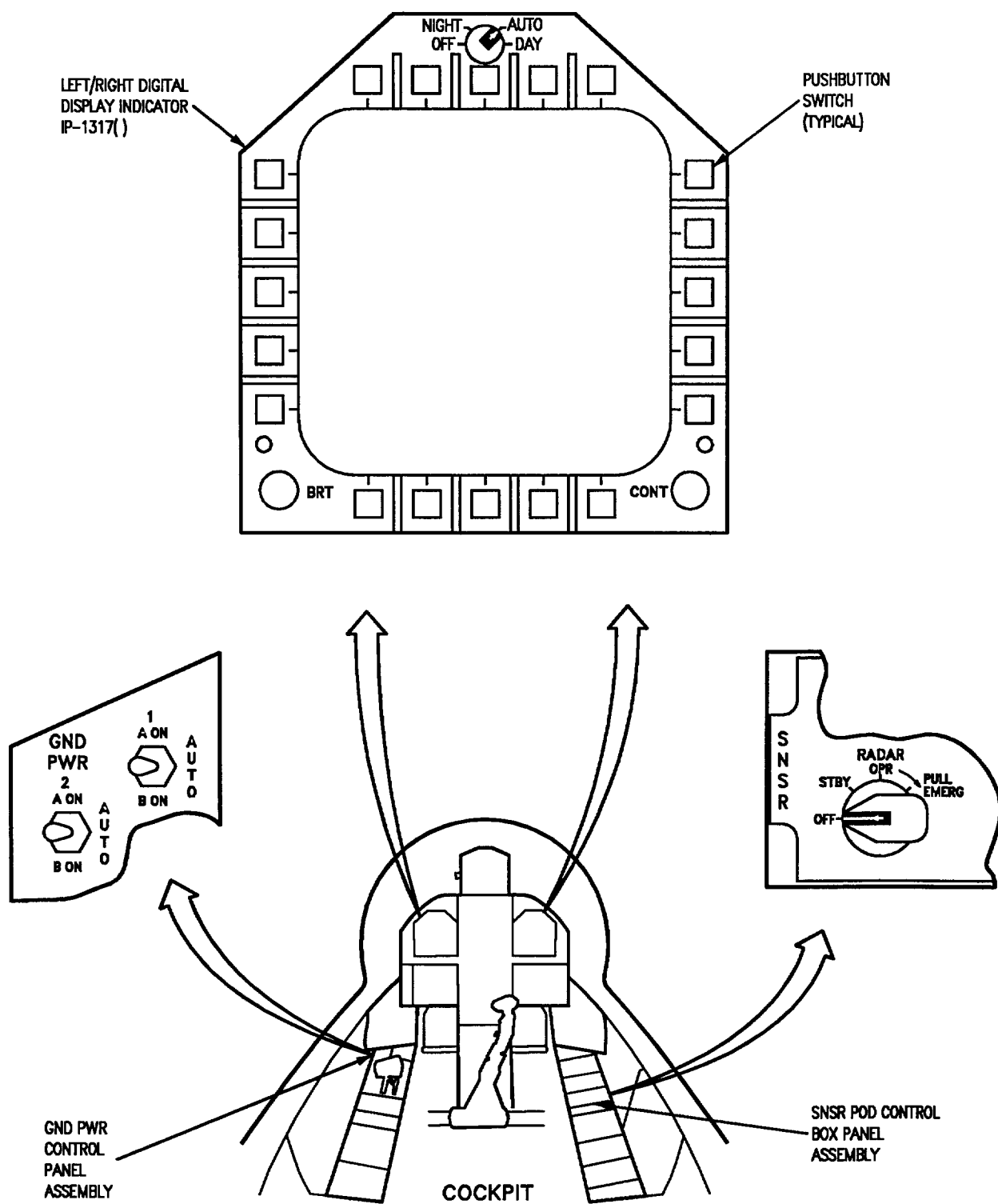
52A-D024 NO. 2 CIRCUIT BREAKER PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
A17	80CBD007	MFD	R115VAC $\phi$ A
B17	80CBD008	MFD	R115VAC $\phi$ B
D7	80CBD009	MFD	R115VAC $\phi$ C

Table 2. No. 7 Circuit Breaker / Relay Panel Assembly

52A-C057 NO. 7 CIRCUIT BREAKER / RELAY PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
A20	83CBC006	MISSION COMP No. 1	L115VAC $\phi$ A
B20	83CBC007	MISSION COMP No. 1	L115VAC $\phi$ B
C20	83CBC008	MISSION COMP No. 1	L115VAC $\phi$ C

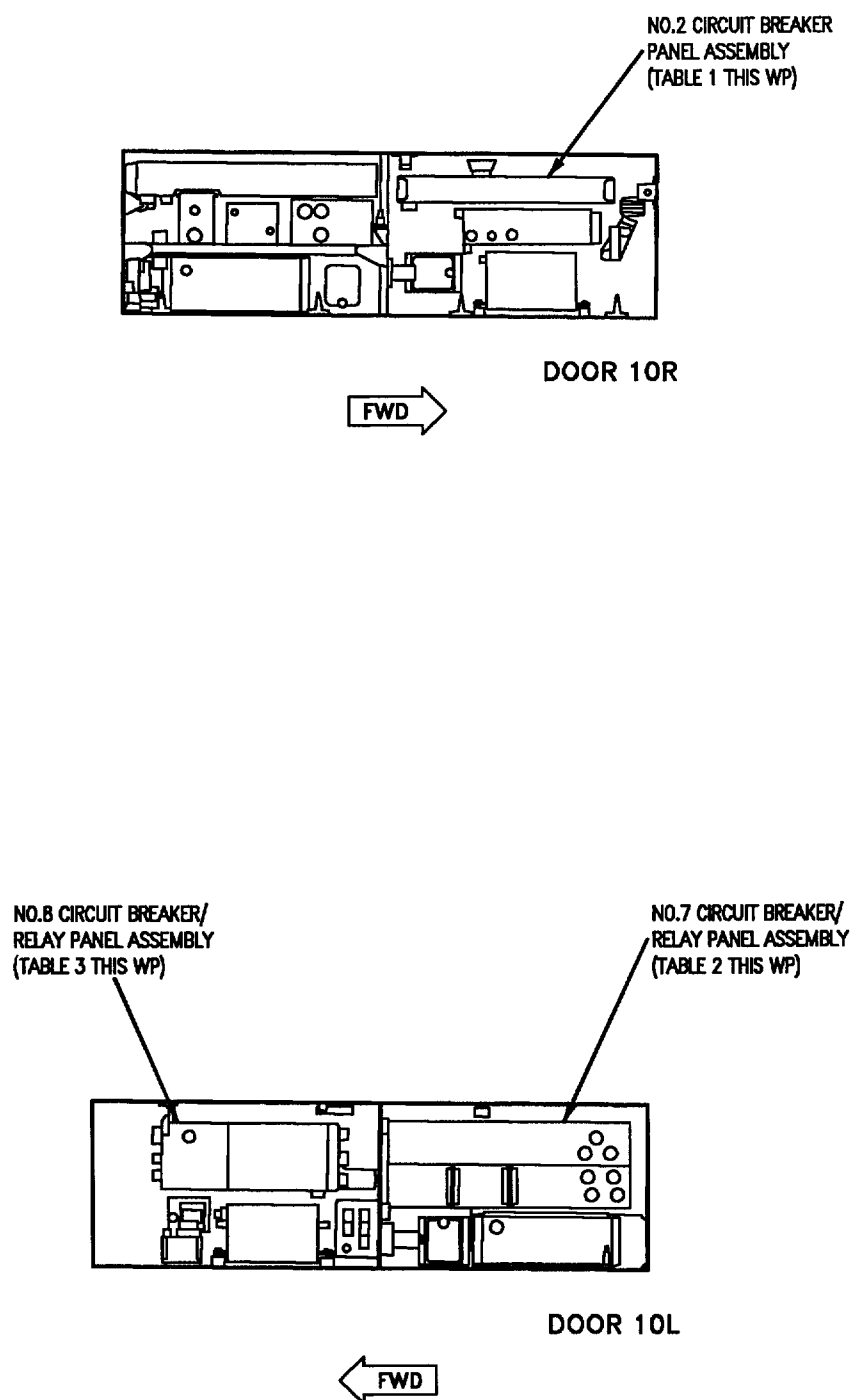
Table 3. No. 8 Circuit Breaker / Relay Panel Assembly

52A-C159 NO. 8 CIRCUIT BREAKER / RELAY PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
A4	60CBC023	RADAR No. 3	L 28VDC
B4	60CBC026	RADAR CONT	L 28VDC
B7	60CBC025	RADAR No. 2	L 28VDC
B8	60CBC006	RADAR No. 1	L 28VDC
C6	60CBC022	RADAR No. 2	L 115VAC $\phi$ C
C9	60CBC021	RADAR No. 2	L 115VAC $\phi$ B
C12	60CBC020	RADAR No. 2	L 115VAC $\phi$ A
D2	85CBC004	MSDRS	U BATT/MAINT 24/28VDC
D6	60CBC005	RADAR No. 1	L 115VAC $\phi$ C
D12	80CBC006	MMD	L 115VAC $\phi$ C
E6	60CBC004	RADAR No. 1	L 115VAC $\phi$ B
E12	80CBC005	MMD	L 115VAC $\phi$ B
F6	60CBC003	RADAR No. 1	L 115VAC $\phi$ A
F12	80CBC004	MMD	L 115VAC $\phi$ A



01400101

Figure 1. AIM-7 Illumination Antenna System Test Controls and Indicators (Sheet 1)



01400102

Figure 1. AIM-7 Illumination Antenna System Test Controls and Indicators (Sheet 2)



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - AIM-7 ILLUMINATION ANTENNA TEST

## AIM-7 ILLUMINATION ANTENNA SYSTEM

EFFECTIVITY: F/A-18 BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Weapon Control Systems .....	A1-F18AC-740-200
AIM-7 Illumination Antenna System Controls and Indicators .....	WP014 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

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## Record of Applicable Technical Directives

None

Table 1. AIM-7 Illumination Antenna Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>System Required Components</b>  AIM-7 (Left) Fuselage Antenna AS-3424/APG-65 AIM-7 (Left) Wing Antenna AS-3354/APG AIM-7 (Right) Fuselage Antenna AS-3423/APG-65 AIM-7 (Right) Wing Antenna AS-3354/APG AIM-7 Transmission Line Coupler CU-2265/APG-65		

Table 1. AIM-7 Illumination Antenna Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>Related Systems Required</b>  Avionics Cooling System Electrical System Mission Computer System Multipurpose Display Group Radar System Stores Management System		
<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
TS-2059/AWM-8	RF Power Test Set	
74D750022-1001	Test-Signal Adapter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
If a malfunction occurs during this test, make sure circuit breakers listed in WP014 00 are closed.		
Controls and indicators are shown in WP014 00.		
Component locations are shown in WP007 00.		
Test displays are shown on figure 1.		
TS-2059/AWM-8 (test set) is shown on figure 2.		
Test equipment hookup is shown in figure 3.		
Items listed below, used in this test are part of 74D750022-1001, Test - Signal Adapter:		
J52S0176-8 - Electrical Connector Cover (5M1795-001)		
115-2057-1 - Electrical Connector (ST5M1388-002)		
74D751045-2001 - Housing Assembly		
74D751045-2007 - Cable Assembly		
115-5079		
or		
QX32P-SW809 - Electrical Connector, Notched (917AS8809)		

Table 1. AIM-7 Illumination Antenna Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).</p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p style="text-align: center;">All live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.</p> <p>a. Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>b. Make sure all weapons are removed from aircraft (A1-F18AE-LWS-000).</p> <p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) install on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER) if installed on aircraft.</p> <p>g. Make sure gun electrical signal safety switch is set to safe (extended) position, aft of door 6.</p>		

Table 1. AIM-7 Illumination Antenna Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>h. Make sure gun holdback mechanism handle is set to cleared; gun holdback handle indicator (extended).</p> <p>2. PRELIMINARY.</p> <p>a. On Aircraft Guided Missile Launcher LAU-116( ), make sure all launcher hooks are closed and SAFETY RELEASE knob is rotated clockwise.</p> <p>b. Remove umbilical cover from launcher umbilical connector.</p> <p>c. Remove housing assembly from signal test adapter (fig 3).</p> <p>d. Remove electrical connector cover and electrical connector from J2 of housing assembly.</p>	<p>SAFETY RELEASE INDICATOR shows GREEN HOOKS LOCKED.</p>	<p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If knob will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Notched electrical connector must be used on Aircraft Guided Missile Launcher LAU-115C/A, either electrical connector can be used on Aircraft Guided Missile Launcher LAU-116( ).</p>		
<p>e. Install electrical connector on launcher umbilical connector.</p> <p>f. Connect housing assembly to electrical connector.</p> <p>g. Do ground intercommunications hookup (A1-F18AC-LMM-000).</p> <p>h. Apply electrical power (A1-F18AC-LMM-000).</p>		

Table 1. AIM-7 Illumination Antenna Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
i. On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.	Switches remain on (latched).	1. If switches unlatch in 10 to 30 seconds, apply aircraft external ground cooling air (A1-F18AC-LMM-000).  2. If switches do not remain on troubleshoot, (A1-F18AC-FIM-000, WP012 00).
j. On Electronic Equipment Control C-10380/ASQ (equipment control), press EMCON switch if EMCON is displayed on option displays.	EMCON is removed from option displays.	Do Electronic Equipment Control C-10380/ASQ Lamp and Switch Test (A1-F18AC-741-200, WP004 00).
k. On left and right Digital Display Indicator IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT. Allow 2 minute warmup and adjust BRT and CONT for best display.	1. LDDI and RDDI have display and center pushbutton switch on bottom row is labeled MENU.	1. No display on LDDI, do table 1 (A1-F18AC-745-200, WP006 00).  2. No display on RDDI, do table 2 (A1-F18AC-745-200, WP007 00).  3. If STANDBY is displayed on LDDI or RDDI, replace left or right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
	2. LDDI has cautions and advisory display.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
l. On RDDI, press MENU pushbutton switch.	Menu display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
m. On RDDI, press BIT pushbutton switch.	BIT control display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
n. On LDDI, press MENU pushbutton switch.	Menu display appears on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
o. On LDDI, press STORES pushbutton switch.	Stores display appears on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).

Table 1. AIM-7 Illumination Antenna Test (Continued)


Procedure	Normal Indication	Remedy for Abnormal Indication
<div style="text-align: center;">  <p>Do not operate test set where high radio frequency energy is being radiated or damage to test set may occur.</p> </div>		
<p>p. On test set (fig 2), set function selector to REAR SIGNAL.</p> <p>3. PROCEDURE.</p> <p>a. On SNSR pod control box panel assembly (SNSR panel), set RADAR switch to STBY.</p> <p>b. After 3 to 7 minutes, observe BIT control display on RDDI.</p> <p>c. On SNSR panel, set RADAR switch to OPR.</p>	<p>RDR BIT status message is GO.</p> <p>RDR BIT status message is GO.</p>	<p>Do table 1 (A1-F18AC-742-200, WP004 00).</p> <p>Do table 1 (A1-F18AC-742-200, WP004 00).</p>
<div style="text-align: center;"> <p><b>NOTE</b></p> <p>RF power can be detected at AIM-7 illumination antenna for approximately 5.2 seconds after SP TEST pushbutton is pressed on the STORES display. Test set meter reading must be taken during this time.</p> <p>Position of test set is critical. Maximum meter reading is obtained when test set is positioned in the approximate location of the rear of the AIM-7 missile and the RF horn window directed toward antenna. It may be required to reposition test set to get reading on meter.</p> </div>		
<p>d. Position test set 12 to 18 inches from AIM-7 illumination antenna.</p> <p>e. On test set, press PRESS TO TEST switch and on LDDI stores display, press SP TEST pushbutton switch.</p>	<p>Test set meter deflects then returns to zero.</p>	<p>1. Press SP TEST on stores display and repeat step 3d with test set at different angle to antenna.</p> <p>2. Do steps 3d and 3e on different AIM-7 illumination antenna.</p>

Table 1. AIM-7 Illumination Antenna Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>f. If other AIM-7 illumination antennas are to be tested, repeat steps 3d and 3e for next station.</p> <p>4. SHUTDOWN.</p> <p>a. Set RADAR switch to OFF on SNSR panel.</p> <p>b. Set power switch to OFF on LDDI and RDDI.</p> <p>c. Remove electrical power (A1-F18AC-LMM-000).</p> <p>d. Disconnect ground intercommunications hookup (A1-F18AC-LMM-000).</p> <p>e. Remove housing assembly and electrical connector (fig 3).</p> <p>f. Install umbilical cover.</p>		<p>a. If normal indication, on different AIM-7 illumination antenna, do applicable table (WP016 00) for illumination antenna that failed.</p> <p>(1) left wing antenna, table 3.</p> <p>(2) right wing antenna, table 2.</p> <p>(3) for left fuselage antenna, do table 6.</p> <p>(4) for right fuselage antenna, do table 7.</p> <p>b. If abnormal indication on different AIM-7 illumination antenna, do table 1 (WP016 00).</p>

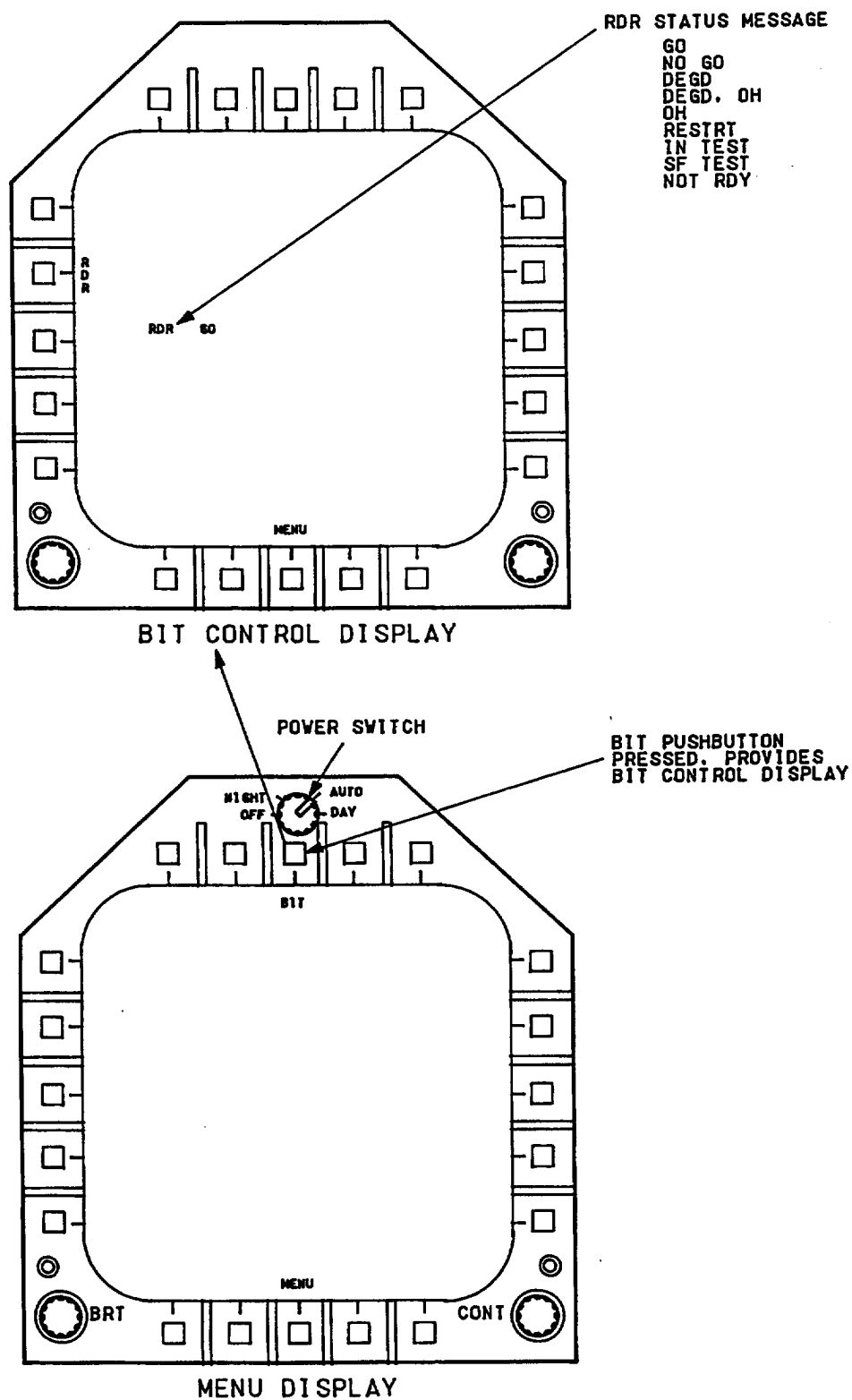
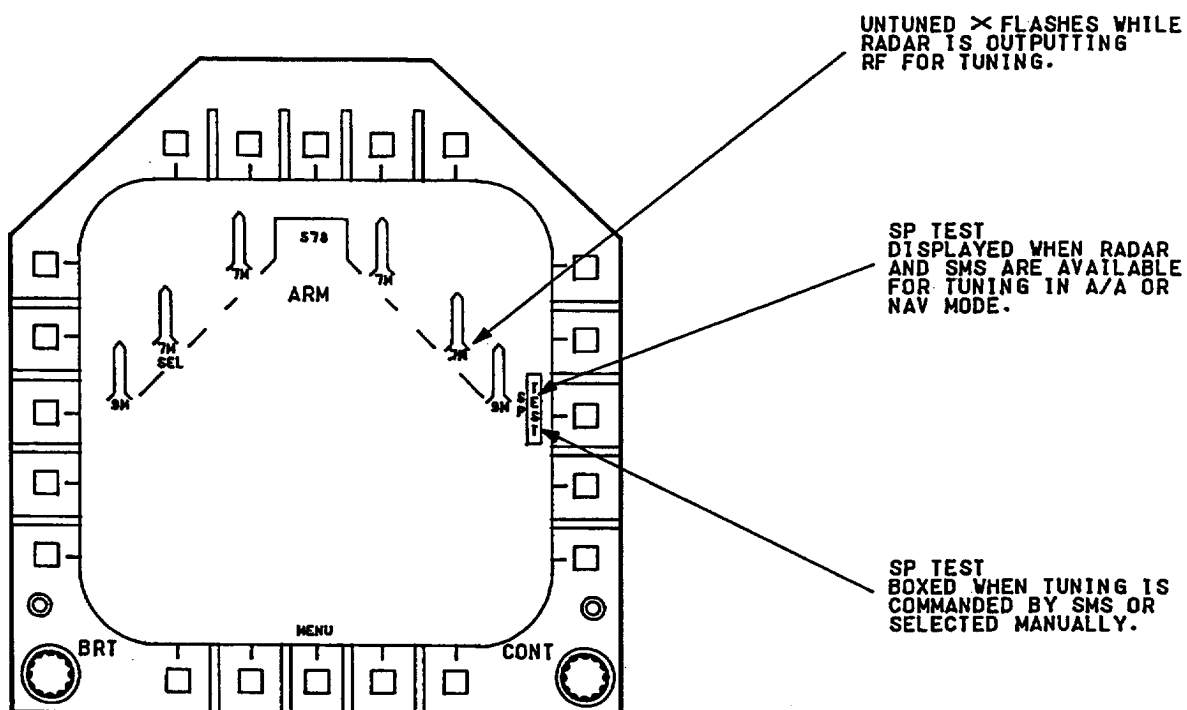
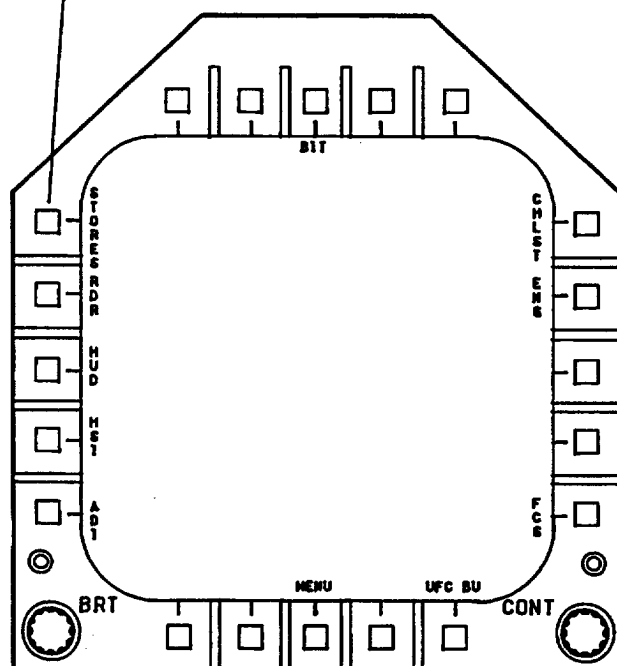


Figure 1. Test Displays (Sheet 1)





AIM-7 TUNE DISPLAY



MENU DISPLAY

Figure 1. Test Displays (Sheet 2)

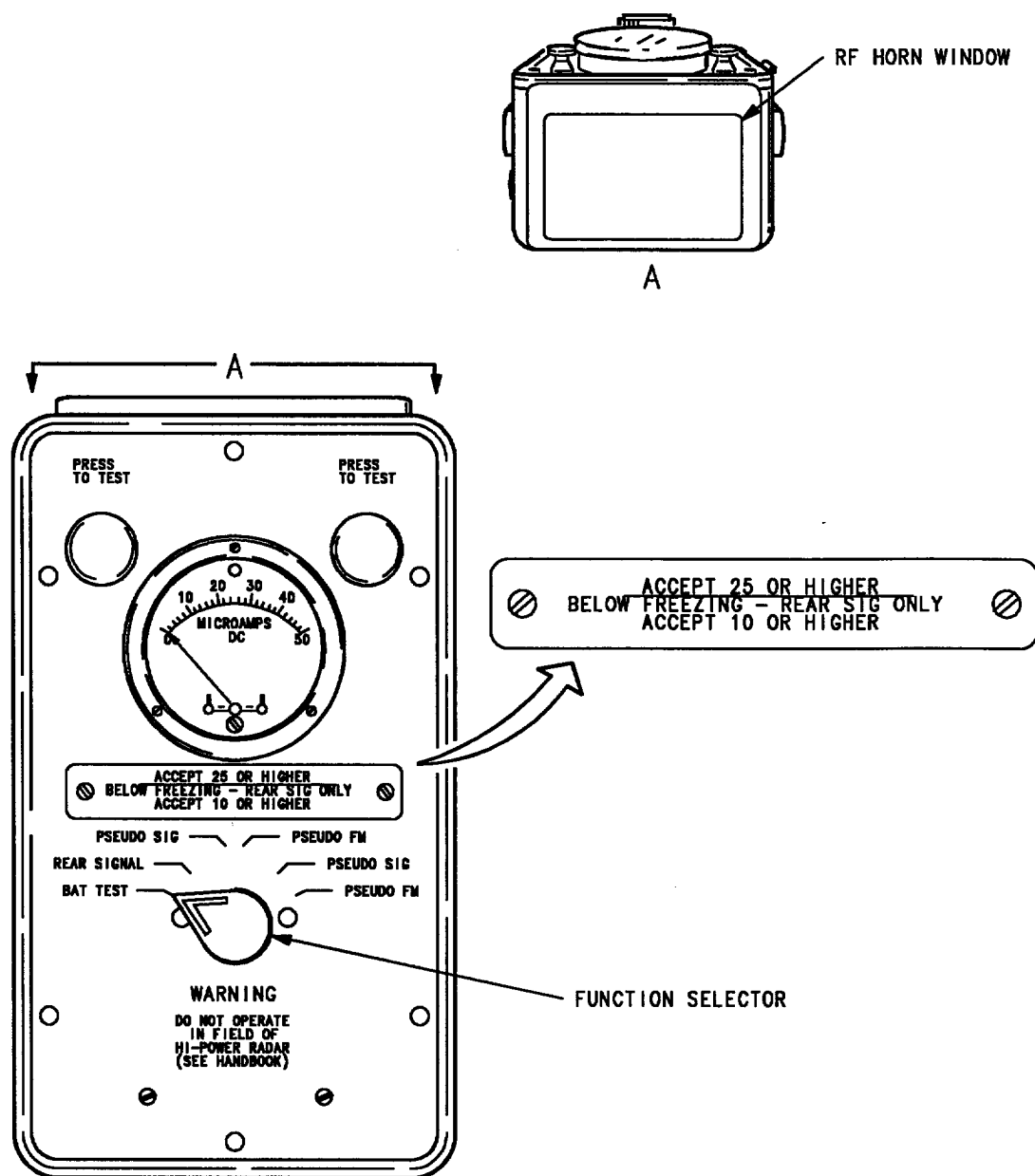


Figure 2. RF Power Test Set TS-2059/AWM-8

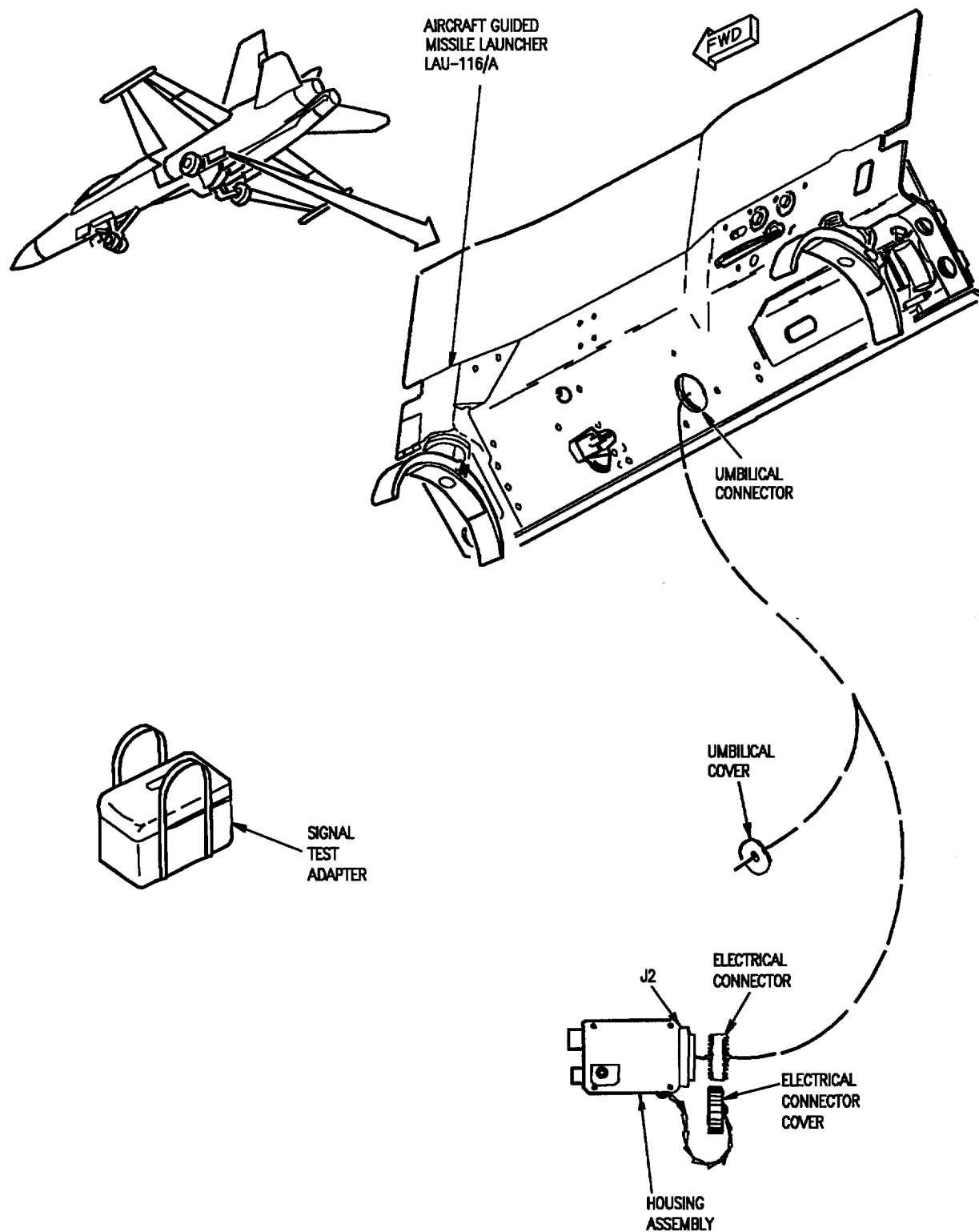


Figure 3. Test Equipment Hookup



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - AIM-7 ILLUMINATION ANTENNA TEST

## AIM-7 ILLUMINATION ANTENNA SYSTEM

EFFECTIVITY: F/A-18 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Weapon Control Systems .....	A1-F18AC-740-200
AIM-7 Illumination Antenna System Controls and Indicators .....	WP014 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. AIM-7 Illumination Antenna Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>System Required Components</b>		
AIM-7 (Left) Fuselage Antenna AS-3424/APG-65 AIM-7 (Left) Wing Antenna AS-3354/APG AIM-7 (Right) Fuselage Antenna AS-3423/APG-65 AIM-7 (Right) Wing Antenna AS-3354/APG AIM-7 Transmission Line Coupler CU-2265/APG-65		
<b>Related Systems Required</b>		
Avionics Cooling System Electrical System Mission Computer System Multipurpose Display Group Radar System Stores Management System		
<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
TS-2059/AWM-18	RF Power Test Set	
TS-1736/AWM-8 (Alternate)	RF Power Test Set	
74D740312-1001	Connector-Radar Illumination Test (Locally Manufactured WP044 00)	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
If a malfunction occurs during this test, make sure circuit breakers listed in WP014 00 are closed.		
Controls and indicators are shown in WP014 00.		
Component locations are shown in WP007 00.		
Test displays are shown on figure 1. TS-2059/AWM-18 (test set) and TS-1736/AWM-8 (test set) are shown on figure 2. Test equipment hookup is shown in figure 3.		
During this test, shear wafer refers to Radar Illumination Test Connector.		

Table 1. AIM-7 Illumination Antenna Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).</p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p style="text-align: center;">All live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.</p> <p>a. Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>b. Make sure all weapons are removed from aircraft.</p> <p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) install on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on BRU-41/BRU-42 if installed on aircraft.</p> <p>g. If gun installed, make sure gun electrical signal safety switch is set to safe (extended) position, aft of door 6.</p> <p>h. IF gun installed, make sure gun holdback mechanism handle is set to cleared; gun holdback handle indicator (extended).</p> <p>i. Make sure AN/ALE-39 dispensers are removed from aircraft.</p> <p>2. PRELIMINARY.</p> <p>a. On Aircraft Guided Missile Launcher LAU-116( ), make sure all launcher hooks are closed and SAFETY RELEASE knob is rotated clockwise.</p>		
	SAFETY RELEASE INDICATOR shows GREEN HOOKS LOCKED.	<p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If SAFTEY RELEASE will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>

Table 1. AIM-7 Illumination Antenna Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>b. Install shear wafer on launcher umbilical connector.</p> <p>c. Do ground intercommunications hookup (A1-F18AC-LMM-000).</p> <p>d. Apply electrical power (A1-F18AC-LMM-000).</p> <p>e. On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>f. On Electronic Equipment Control (equipment control), press EMCON switch if EMCON is displayed on option displays.</p> <p>g. On left and right Digital Display Indicator (LDDI and RDDI), set power switch to DAY or NIGHT. Allow 2 minute warmup and adjust BRT and CONT for best display.</p>	<p>Switches remain on (latched).</p> <p>EMCON is removed from option displays.</p> <p>1. LDDI and RDDI have display and center pushbutton switch on bottom row is labeled MENU.</p> <p>2. LDDI has cautions and advisory display.</p>	<p>1. If switches unlatch in 10 to 30 seconds, apply aircraft external ground cooling (A1-F18AC-LMM-000).</p> <p>2. If no switches remain on, do GND PWR Switch System Test (A1-F18AC-420-200, WP006 00).</p> <p>3. If one but not all switches remain on, replace GND PWR Control Panel Assembly (A1-F18AC-741-200, WP004 00).</p> <p>Do Electronic Equipment Control Lamp and Switch Test (A1-F18AC-741-200, WP004 00).</p> <p>1. No display on LDDI: do table 1 (A1-F18AC-745-200, WP006 00).</p> <p>2. No display on RDDI: do table 2 (A1-F18AC-745-200, WP006 00).</p> <p>3. If STANDBY is displayed: do table 2 (A1-F18AC-745-200, WP004 00).</p> <p>4. If BRT or CONT controls do not affect displays, replace LDDI or RDDI (A1-F18AC-745-300, WP004 00).</p> <p>Replace LDDI (A1-F18AC-745-300, WP004 00).</p>



Table 1. AIM-7 Illumination Antenna Test (Continued)


Procedure	Normal Indication	Remedy for Abnormal Indication
h. On RDDI, press and release MENU pushbutton switch until BIT pushbutton option is displayed.	Menu display appears on RDDI.	Replace RDDI (A1-F18AC-745-300, WP004 00).
i. On RDDI, press BIT pushbutton switch on menu display.	BIT control display appears on RDDI.	Replace RDDI (A1-F18AC-745-300, WP004 00).
j. On RDDI, press SENSORS pushbutton switch on BIT control display.	SENSORS BIT display appears on RDDI.	Replace RDDI (A1-F18AC-745-300, WP004 00).
k. On LDDI, press and release MENU pushbutton switch until STORES pushbutton option is displayed.	Menu display appears on LDDI.	Replace LDDI (A1-F18AC-745-300, WP004 00).
l. On LDDI, press STORES pushbutton switch.	Stores display appears on LDDI.	Replace LDDI (A1-F18AC-745-300, WP004 00).
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>Do not operate test set where high radio frequency energy is being radiated or damage to test set may occur.</p>		
m. On test set (fig 2), set function selector to REAR SIGNAL.		
3. PROCEDURE.		
a. On SNSR pod control box panel assembly (SNSR panel), set RADAR switch to STBY.		
b. After 3 to 7 minutes, observe BIT control display on RDDI.	RDR BIT status message is GO.	<div>1 Do table 1 (A1-F18AC-742-200, WP004 00).</div> <div>2 Do table 1 (A1-F18AH-742-200, WP004 00).</div>
c. On SNSR panel, set RADAR switch to OPR.	RDR BIT status message is GO.	<div>1 Do table 1 (A1-F18AC-742-200, WP004 00).</div> <div>2 Do table 1 (A1-F18AH-742-200, WP004 00).</div>

Table 1. AIM-7 Illumination Antenna Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p style="text-align: center;"><b>NOTE</b></p> <p>RF power can be detected at AIM-7 illumination antenna for approximately 5.2 seconds after SP TEST pushbutton is pressed on the STORES display. Test set meter reading must be taken during this time.</p> <p>Position of test set is critical. Maximum meter reading is obtained when test set is positioned in the approximate location of the rear of the AIM-7 missile and the RF horn window directed toward antenna. It may be required to reposition test set to get reading on meter.</p> <p>d. Position test set 12 to 18 inches from AIM-7 illumination antenna.</p> <p>e. On test set, press and hold PRESS TO TEST switch.</p> <p>f. On LDDI stores display, press SP TEST pushbutton switch. LDDI stores display, press SP TEST pushbutton switch.</p> <p>g. If other AIM-7 illumination antennas are to be tested, repeat steps 3d and 3e for next station.</p> <p>4. SHUTDOWN.</p> <p>a. Set RADAR switch to OFF on SNSR panel.</p>		
<p>d. Position test set 12 to 18 inches from AIM-7 illumination antenna.</p> <p>e. On test set, press and hold PRESS TO TEST switch.</p> <p>f. On LDDI stores display, press SP TEST pushbutton switch. LDDI stores display, press SP TEST pushbutton switch.</p> <p>g. If other AIM-7 illumination antennas are to be tested, repeat steps 3d and 3e for next station.</p> <p>4. SHUTDOWN.</p> <p>a. Set RADAR switch to OFF on SNSR panel.</p>	<p>Test set meter deflects then returns to zero.</p>	<p>1. Press SP TEST on stores display and repeat step 3d with test set at different angle to antenna.</p> <p>2. Do steps 3d and 3e on different AIM-7 illumination antenna.</p> <p>a. If normal indication, on different AIM-7 illumination antenna, do applicable table for illumination antenna that failed.</p> <p>(1) left wing antenna, table 2 (WP041 00).</p> <p>(2) right wing antenna, table 1 (WP041 01).</p> <p>(3) for left fuselage antenna, do table 3 (WP041 00).</p> <p>(4) for right fuselage antenna, do table 2 (WP041 01).</p> <p>b. If abnormal indication on different AIM-7 illumination antenna, do table 1 (WP016 02).</p>

Table 1. AIM-7 Illumination Antenna Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>b. Set power switch to OFF on LDDI and RDDI.</p> <p>c. Remove electrical power (A1-F18AC-LMM-000).</p> <p>d. Disconnect ground intercommunications hookup (A1-F18AC-LMM-000).</p> <p>e. Remove housing assembly and electrical connector (fig 3).</p> <p>f. Install umbilical cover.</p>		
<b>LEGEND</b>  <div><div>1</div> On F/A-18A after F/A-18 AFC 253 (AN/APG-65).</div> <div><div>2</div> On F/A-18A after F/A-18 AFC 292 (AN/APG-73).</div>		

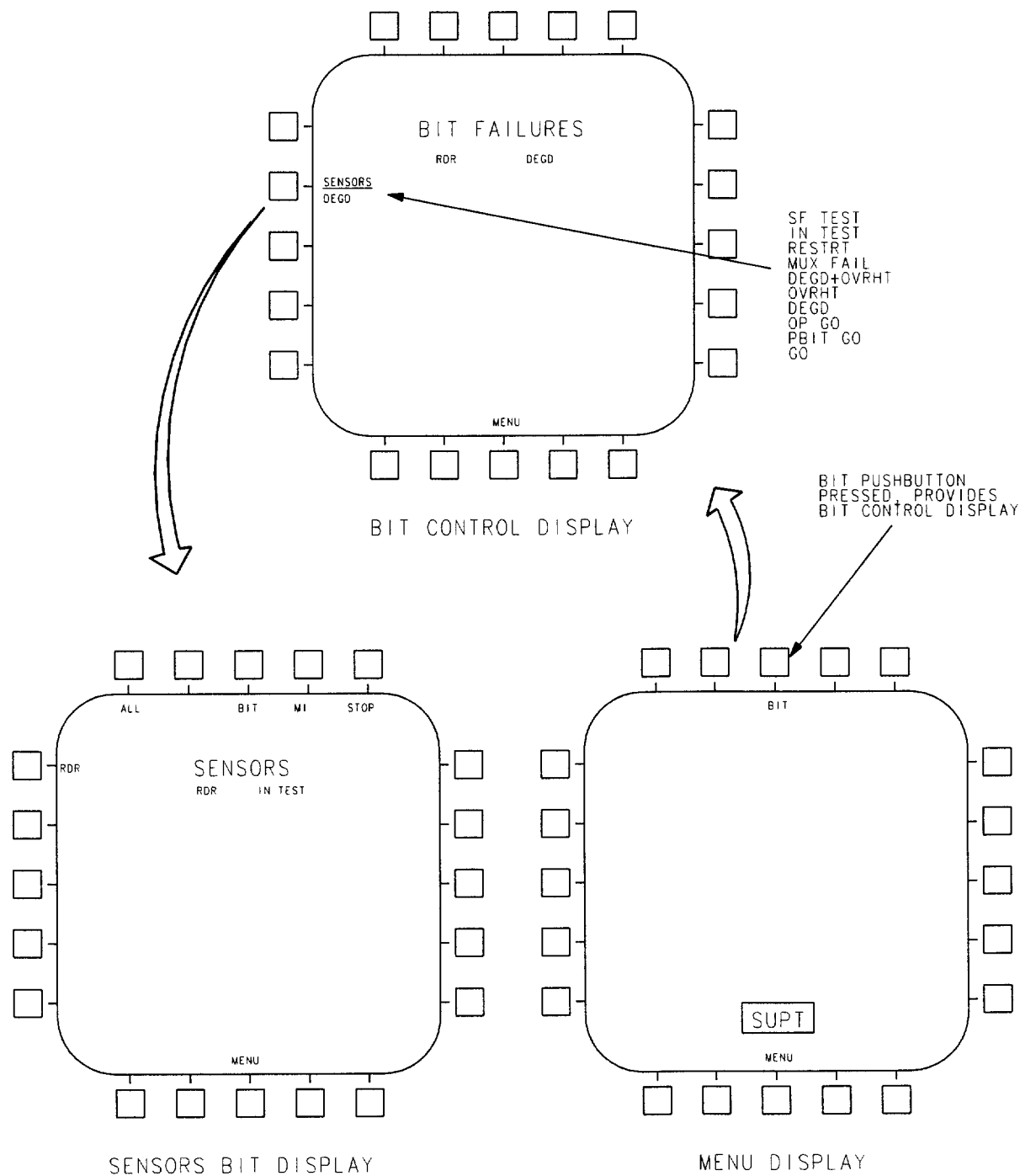


Figure 1. Test Displays (Sheet 1)

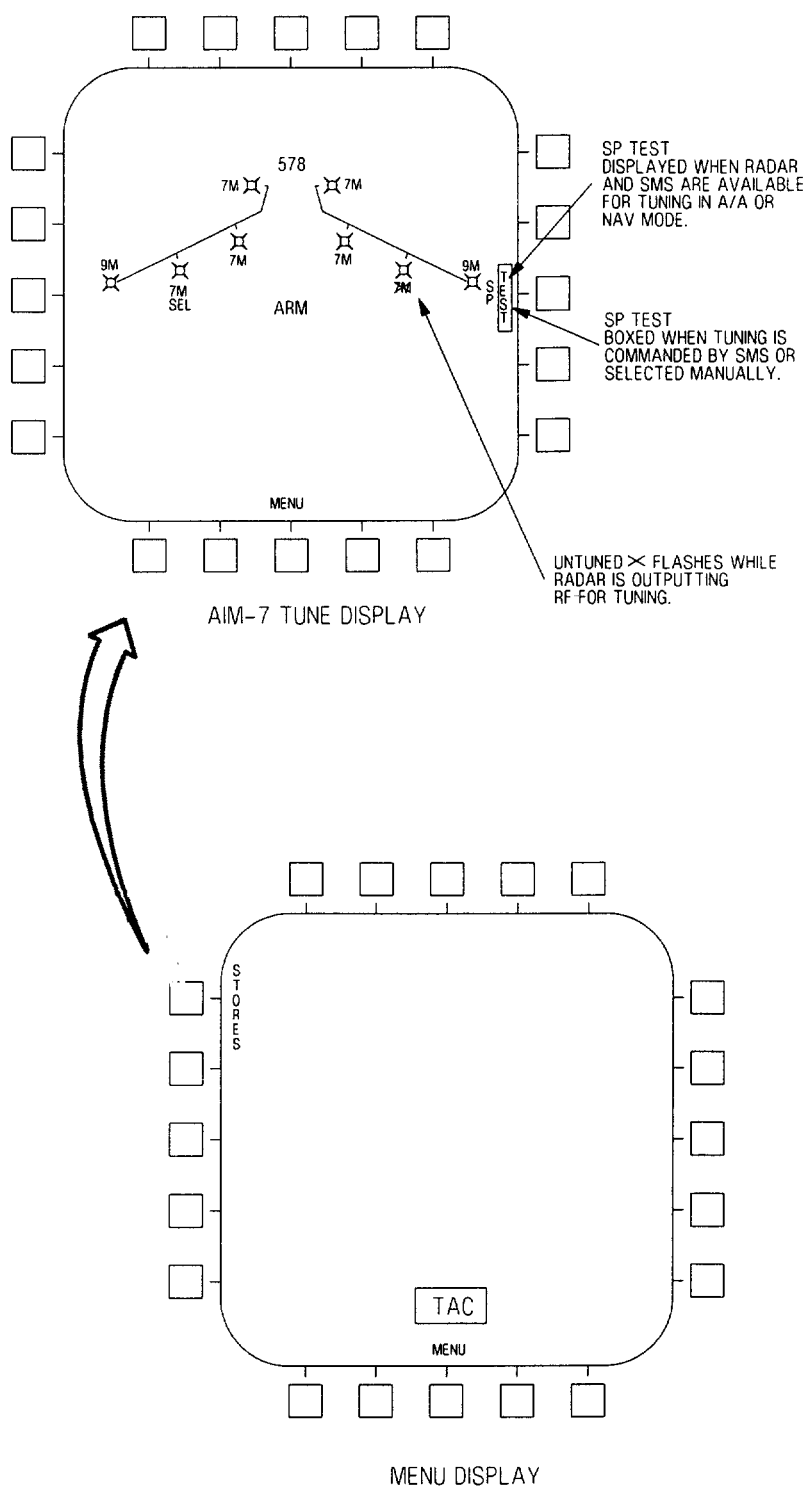


Figure 1. Test Displays (Sheet 2)

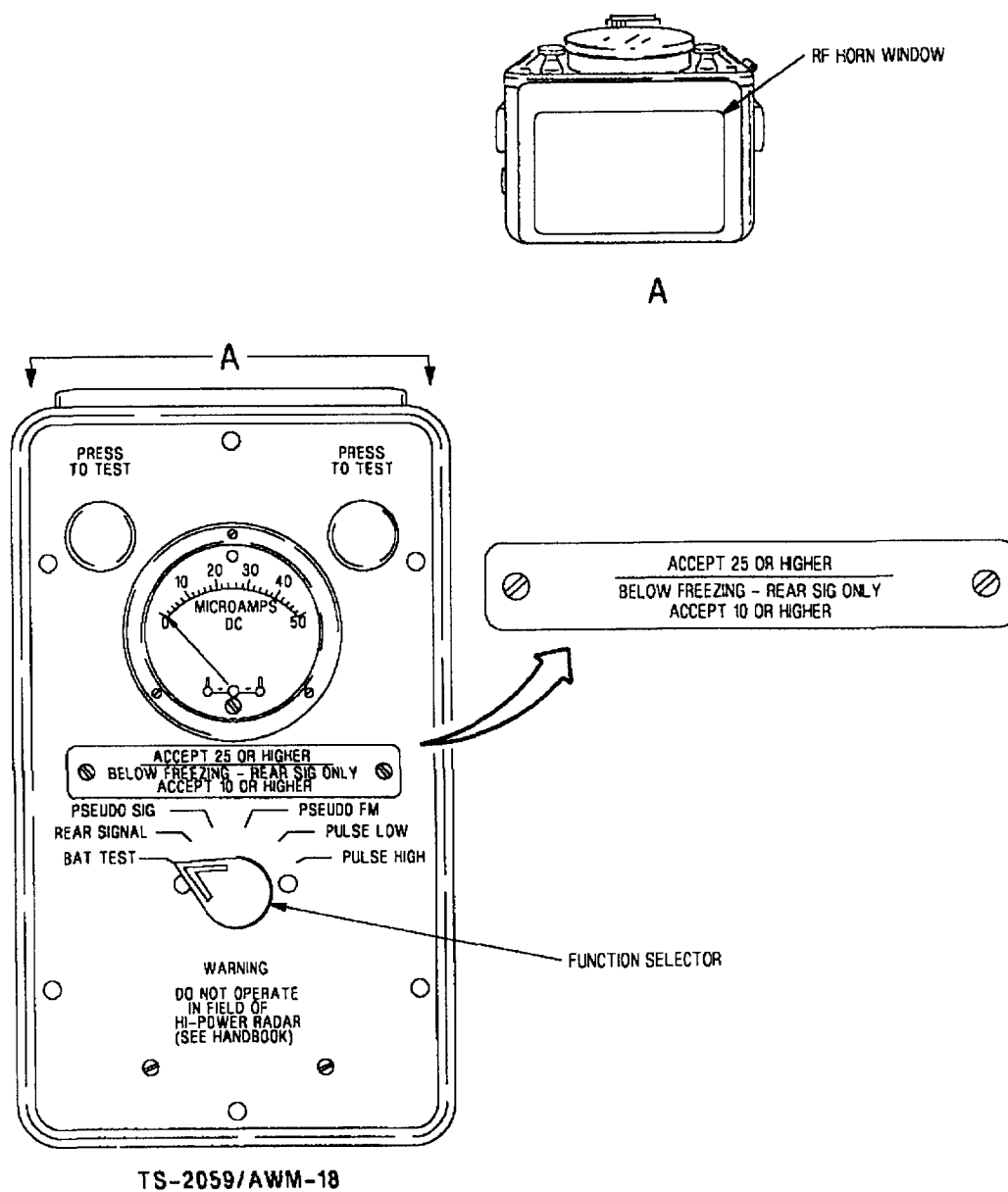


Figure 2. RF Power Test Set (Sheet 1)

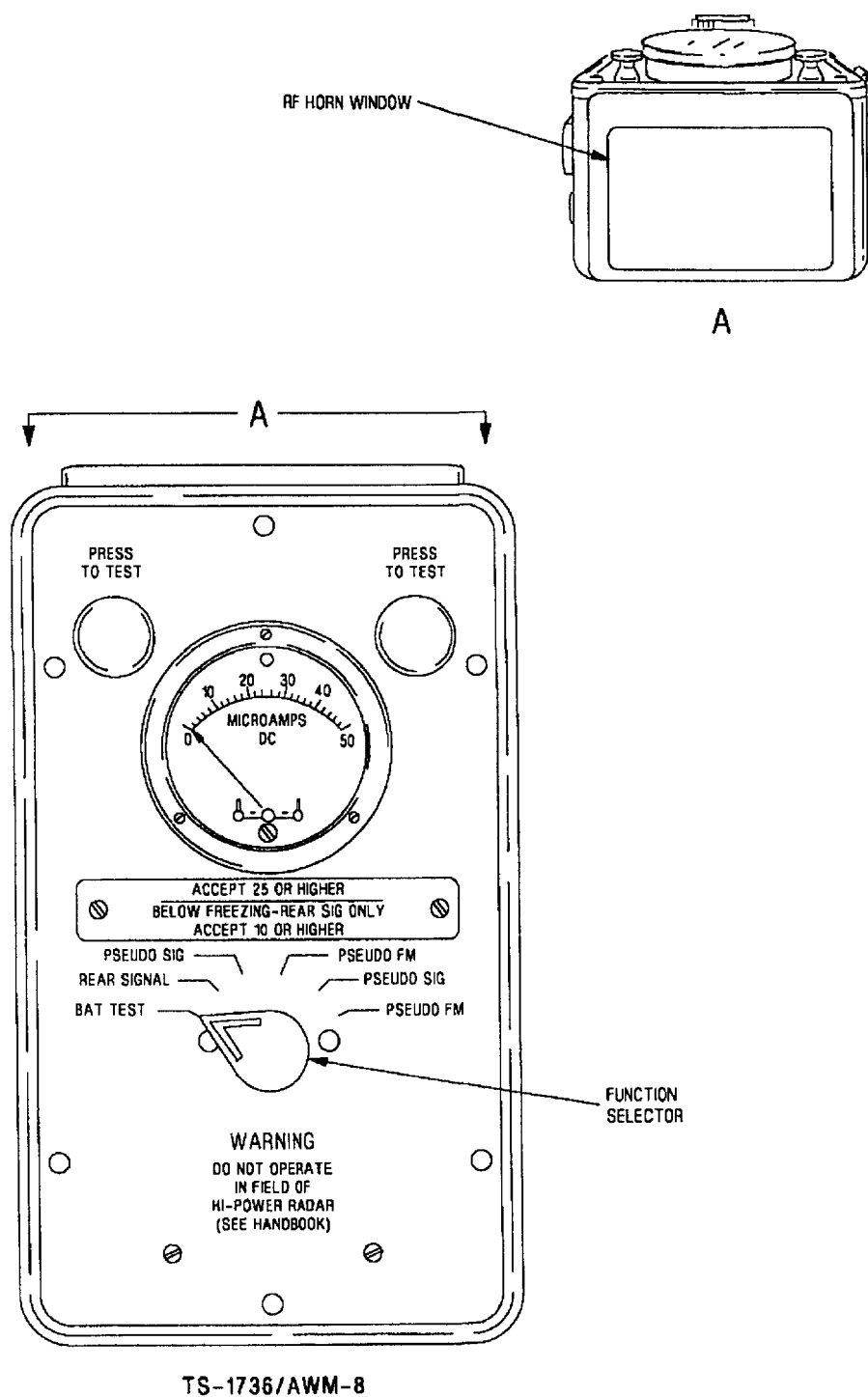


Figure 2. RF Power Test Set (Sheet 2)

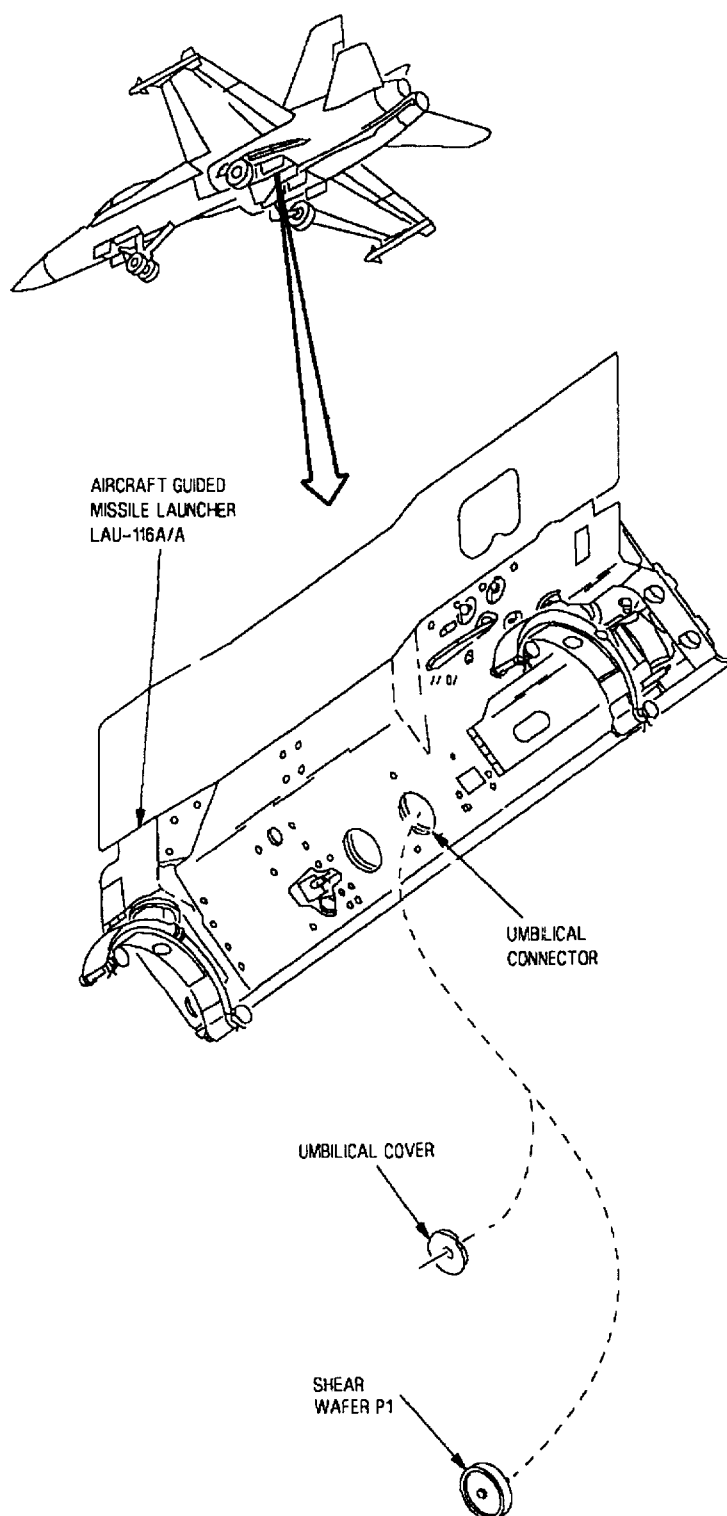


Figure 3. Test Equipment Hookup



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 ILLUMINATION ANTENNA TEST

## AIM-7 ILLUMINATION ANTENNA SYSTEM

EFFECTIVITY: F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18AC 292 AND F/A-18B

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
AIM-7 Line/Antenna Return Loss and Insertion Loss .....	WP016 01
Weapon Control System .....	A1-F18AC-740-250/(C)
AIM-7 Line/Antenna Return Loss and Insertion Loss .....	WP016 01

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## Record of Applicable Technical Directives

None

Table 1. No Power From Any AIM-7 Antenna

Support Equipment Required	
Part Number or Type Designation	Nomenclature
AN/USM-402A(V)1	Swept Frequency Measurement Test Set
-	Torque Wrench, 0 to 75 Inch-Pounds

Table 1. No Power From Any AIM-7 Antenna (Continued)

Materials Required		
Specification or Part Number	Nomenclature	
MS20995NC20	Lockwire	
<div>NOTE</div> <div>AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP041 00) may be used as an aid while doing this procedure.</div> <div>Component locations are shown in WP007 00.</div> <div>Malfunction is caused by one of the items listed below:</div> <div>AIM-7 Radio Frequency Cable 60W-P536 (SF41A)</div> <div>AIM-7 Radio Frequency Cable 60W-P529 (SF41B)</div> <div>AIM-7 Transmission Line Coupler CU-2265/APG-65</div> <div>Pantograph Assembly</div> <div>Radar Transmitter T-1377/APG-65</div>		
Procedure	No	Yes
<div>a. Do substeps listed below:</div> <div>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</div> <div><div>CAUTION</div><div>To prevent damage to coax cables, do not bend coax cables tighter than one and a half inch radius.</div></div> <div>(2) Open door 26 (A1-F18AC-LMM-010), and disconnect 60P-P008B from J2 on AIM-7 Transmission Line Coupler CU-2265/APG-65.</div> <div>(3) Extend Radar Set AN/APG-65 (A1-F18AC-742-300, WP003 00) and disconnect 01P08 from Radar Transmitter T-1377/APG-65.</div> <div>(4) Do Initial Setup (WP016 01).</div> <div>(5) Do Insertion Loss Setup (WP016 01).</div> <div>(6) Do Recorder Reference Line Recording for insertion loss hookup no. 1 (WP016 01).</div> <div>(7) Replace 7mm to TNC female adapter on directional coupler (channel R) with a 7mm to N female adapter.</div> <div>(8) Do hookup no. 1, table 8.</div>		

Table 1. No Power From Any AIM-7 Antenna (Continued)

Procedure	No	Yes
(9) Do Measurement Recording (WP016 01).		
(10) Does measurement exceed hookup no. 1 maximum allowable insertion loss value (A1-F18AC-740-250/(C), WP016 01)? .....	b	c
b. Replace Radar Transmitter T-1377/APG-65 (A1-F18AC-742-300, WP007 00). Do step j .....	-	-
c. Do substeps listed below:		
(1) Disconnect directional couplers (channel R and channel B) from unit under test.		
(2) Remove 7mm to N adapter from directional coupler (channel R).		
(3) Install 7mm to TNC male adapter on directional coupler (channel R).		
(4) Connect 7mm to TNC male adapter on directional coupler (channel R) to 7mm to TNC female adapter on directional coupler (channel B).		
(5) Do Recorder Reference Line Recording for insertion loss hookup no. 2 (WP016 01).		
(6) Disconnect 60P-P008A from AIM-7 Transmission Line Coupler CU-2265/APG-65.		
(7) Do hookup no. 2, table 8.		
<b>NOTE</b>		
Note frequency where insertion loss limit is exceeded. This frequency is $F_0$ , and is used in fault location.		
(8) Do Measurement Recording (WP016 01).		
(9) Does measurement exceed hookup no. 2 maximum allowable insertion loss value (A1-F18AC-740-250/(C), WP016 01)? .....	d	e
d. Replace AIM-7 Transmission Line Coupler CU-2265/APG-65 (A1-F18AC-740-300, WP023 00). Do step j. ....	-	-
e. Do substeps listed below:		
(1) Do Fault Location (WP016 01) on coax cables from 01P08 to 60P-P008A. Use fig 1 for length and connector type.		
(2) Does distance to fault, indicate pantograph assembly? .....	f	i
f. Does distance to fault, indicate coax cable SF41A? .....	g	h

Table 1. No Power From Any AIM-7 Antenna (Continued)

Procedure	No	Yes
g. When distance to fault indicates SF41B and connector(s) 60P-P008A, 60P-E007, 60J-E007 or 60J-P007, visually inspect connector(s) for damage and repair if necessary. If connectors are not indicated or damaged, replace coax cable SF41B (A1-F18AC-740-300, WP023 05) (60W-P529). Do step j. ....	-	-
h. When distance to fault indicates SF41A and connector(s) 60J-A001E, 60J-E007, 60J-P007 or 60P-E007, visually inspect connector(s) for damage and repair if necessary. If connectors are not indicated or damaged, replace coax cable SF41A. See below for repair/replacement procedures:		
(1) On F/A-18A - 60J-A001E (A1-F18AC-WRM-000, WP007 00), 60J-E007 (A1-F18AC-WRM-000, WP052 00), 60P-E007 (A1-F18AC-WRM-000, WP039 00), coax cable SF41A (A1-F18AC-WDM-000), Do step j. ....	-	-
(2) On F/A-18B - 60J-A001E (A1-F18AC-WRM-000, WP007 00), 60J-E007 (A1-F18AC-WRM-000, WP039 00), 60J-P007 (A1-F18AC-WRM-000, WP068 00), coax cable SF41A (A1-F18AC-WRM-000), Do step j. ....	-	-
i. Replace Pantograph Assembly (A1-F18AC-742-300, WP013 00). Do step j. ....	-	-
j. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 01P08		
(2) 60P-P008A (torque to 38 to 42 inch-pounds, and safety with lockwire MS20995NC20)		
(3) 60P-P008B (torque to 38 to 42 inch-pounds, and safety with lockwire MS20995NC20)		
(4) Door 26		
(5) Stow Radar Set AN/APG-65 .....	-	-

Table 2. No Power From Right Wing AIM-7 Antenna

Support Equipment Required	
Part Number or Type Designation	Nomenclature
AN/USM-402A(V)1	Swept Frequency Measurement Test Set
-	Torque Wrench, 0 to 75 Inch-Pounds

Table 2. No Power From Right Wing AIM-7 Antenna (Continued)

Materials Required		
Specification or Part Number	Nomenclature	
MS20995NC20	Lockwire	
<div>NOTE</div> <p>AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP041 00) may be used as an aid while doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>AIM-7 (Right) Wing Antenna AS-3354/APG AIM-7 Right Wing Radio Frequency Cable 60W-P528 (SF46A) AIM-7 Right Wing Radio Frequency Cable 60W-P535 (SF46B) AIM-7 Transmission Line Coupler CU-2265/APG-65</p>		
Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <div><div>CAUTION</div><p>To prevent damage to coax cables, do not bend coax cables tighter than one and a half inch radius.</p></div> <p>(2) Open door 26 (A1-F18AC-LMM-010) and disconnect 60P-P008B from J2 on AIM-7 Transmission Line Coupler CU-2265/APG-65.</p> <p>(3) Remove AIM-7 (right) Wing Antenna AS-3354/APG (A1-F18AC-740-300, WP021 00).</p> <p>(4) Do Initial Setup (WP016 01).</p> <p>(5) Do Insertion Loss Setup (WP016 01).</p> <p>(6) Do Reference Line Recording for insertion loss hookup no. 3 (WP016 01).</p> <p>(7) Replace 7mm to TNC male adapter on directional coupler (channel B) with a 7mm to N female adapter.</p> <p>(8) Do hookup no. 3, table 8.</p>		

Table 2. No Power From Right Wing AIM-7 Antenna (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>Note frequency where insertion loss limit is exceeded. This frequency is <math>F_0</math>, and is used in fault location.</p>		
(9) Do Measurement Recording (WP016 01).		
(10) Does measurement exceed hookup no. 3 maximum allowable loss value (A1-F18AC-740-250/(C), WP016 01)? .....	b	e
b. Do substeps listed below:		
(1) Do Return Loss Setup (WP016 01).		
(2) Do Recording Reference Line Recording for return loss (WP016 01).		
(3) Remove precision termination (50 ohm) and 7mm to TNC male adapter from directional coupler (channel A).		
(4) Connect 7mm to N male adapter to directional coupler (channel A).		
(5) Do hookup no. 1, table 9.		
<p style="text-align: center;"><b>NOTE</b></p> <p>When testing antennas, make sure antennas are not within 5 feet of any metal object.</p>		
(6) Do Measurement Recording (WP016 01). Is return loss measurement 14 dB or greater? .....	c	d
c. Replace AIM-7 (right) Wing Antenna AS-3354/APG (A1-F18AC-740-300, WP021 00). Do step h. ....	-	-
d. Replace AIM-7 Transmission Line Coupler CU-2265/APG-65 (A1-F18AC-740-300, WP023 00). Do step h. ....	-	-
e. Do substeps listed below:		
(1) Do Fault Location (WP016 01) on coax cables from 60P-P008B to 60P-V016. Use fig 1 for length and connector type.		
(2) Does distance to fault, indicate coax cable SF46A? .....	f	g
f. When distance to fault indicates coax cable SF46B and connector(s) 60P-V016, 60J-V015 or 60P-V015, visually inspect connector(s) for damage and repair if necessary. If connectors are not indicated or damaged, replace coax cable SF46B (A1-F18AC-740-300, WP023 04) (60W-P535). Do step h. ....	-	-


**Table 2. No Power From Right Wing AIM-7 Antenna (Continued)**

Procedure	No	Yes
g. When distance to fault indicates coax cable SF46A and connector(s) 60P-P008B, 60P-V015 or 60J-V015, visually inspect connector(s) for damage and repair if necessary. If connectors are not included or damaged, replace coax cable SF46A (A1-F18AC-740-300, WP023 04) (60W-P528). Do step h. ....	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) AIM-7 (right) Wing Antenna AS-3354/APG-65		
(2) 60P-P008 (torque to 38 to 42 inch-pounds, and safety with lockwire MS20995NC20)		
(3) Door 26 .....	-	-

**Table 3. No Power From Left Wing AIM-7 Antenna**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
AN/USM-402A(V)1	Swept Frequency Measurement Test Set
-	Torque Wrench, 0 to 75 Inch-Pounds
Materials Required	
Specification or Part Number	Nomenclature
MS20995NC20	Lockwire
NOTE	
AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP041 00) may be used as an aid while doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
AIM-7 (Left) Wing Antenna AS-3354/APG	
AIM-7 Left Wing Radio Frequency Cable 60W-P525 (SF43A)	
AIM-7 Left Wing Radio Frequency Cable 60W-P534 (SF43B)	
AIM-7 Transmission Line Coupler CU-2265/APG-65	

Table 3. No Power From Left Wing AIM-7 Antenna (Continued)

Procedure	No	Yes
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
<div style="text-align: center;">  </div> <p>To prevent damage to coax cables, do not bend coax cables tighter than one and a half inch radius.</p>		
(2) Open door 26 (A1-F18AC-LMM-010) and disconnect 60P-P008C from J3 on AIM-7 Transmission Line Coupler CU-2265/APG-65.		
(3) Remove AIM-7 (left) Wing Antenna AS-3354/APG (A1-F18AC-740-300, WP021 00).		
(4) Do Initial Setup (WP016 01).		
(5) Do Insertion Loss Setup (WP016 01).		
(6) Do Reference Line Recording for insertion loss hookup no. 4 (WP016 01).		
(7) Replace 7mm to TNC male adapter on directional coupler (channel B) with a 7mm to N female adapter.		
(8) Do hookup no. 4, table 8.		
<div style="text-align: center;"><b>NOTE</b></div> <p>Note frequency where insertion loss limit is exceeded. This frequency is <math>F_O</math>, and is used in fault location.</p>		
(9) Do Measurement Recording (WP016 01).		
(10) Does measurement exceed hookup no. 4 maximum allowable insertion loss value (A1-F18AC-740-250/(C), WP016 01)? .....	b	e
b. Do substeps listed below:		
(1) Do Return Loss Setup (WP016 01).		
(2) Do Recording Reference Line Recording for return loss (WP016 01).		
(3) Remove precision termination (50 ohm) and 7mm to TNC male adapter from directional coupler (channel A).		
(4) Connect 7mm to N male adapter to directional coupler (channel A).		



**Table 3. No Power From Left Wing AIM-7 Antenna (Continued)**

Procedure	No	Yes
(5) Do hookup no. 2, table 9.		
<b>NOTE</b>		
When testing antennas, make sure antennas are not within 5 feet of any metal object.		
(6) Do Measurement Recording (WP016 01). Is return loss measurement 14 dB or greater? . . .	c	d
c. Replace AIM-7 (left) Wing Antenna AS-3354/APG (A1-F18C-740-300, WP021 00). Do step h. . . . .	-	-
d. Replace AIM-7 Transmission Line Coupler CU-2265/APG-65 (A1-F18AC-740-300, WP023 00). Do step h. . . . .	-	-
e. Do substeps listed below:		
(1) Do Fault Location (WP016 01) on coax cables from 60P-P008C to 60P-U013. Use fig 1 for length and connector type.		
(2) Does distance to fault indicate coax cable SF43A? . . . . .	f	g
f. When distance to fault indicates coax cable SF43B and connector(s) 60P-U013, 60J-U012 or 60P-U012, visually inspect connector(s) for damage and repair if necessary. If connectors are not indicated or damaged, replace coax cable SF43B (A1-F18AC-740-300, WP023 01) (60W-P534). Do step h. . . . .	-	-
g. When distance to fault indicates coax cable SF43A and connector(s) 60P-P008C, 60P-U012 or 60J-U012, visually inspect connector(s) for damage and repair if necessary. If connectors are not indicated or damaged, replace coax cable SF43A (A1-F18AC-740-300, WP023 01) (60W-P525). Do step h. . . . .	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) AIM-7 (left) Wing Antenna AS-3354/APG		
(2) 60P-P008C (torque 38 to 42 inch-pounds, and safety with lockwire MS20995NC20)		
(3) Door 26 . . . . .	-	-

**Table 4. No Power From Left Fuselage AIM-7 Antenna - 161353 THRU 161705,  
AND 161707**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
AN/USM-402(V)1	Swept Frequency Measurement Test Set	
-	Torque Wrench, 0 to 75 Inch-Pounds	
Materials Required		
Specification or Part Number	Nomenclature	
MS20995NC20	Lockwire	
NOTE		
AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP041 00) may be used as an aid while doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
AIM-7 (Left) Fuselage Antenna AS-3424/APG-65 AIM-7 Left Fuselage Radio Frequency Cable 60W-P526 (SF44A) AIM-7 Transmission Line Coupler CU-2265/APG-65		
Procedure	No	Yes
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
<div>CAUTION</div>		
To prevent damage to coax cables, do not bend coax cables tighter than one and a half inch radius.		
(2) Open door 26 (A1-F18AC-LMM-010) and disconnect 60P-P008E from J5 on Transmis- sion Line Coupler CU-2265/APG-65.		
(3) Remove AIM-7 (left) Fuselage Antenna AS-3424/APG-65 (A1-F18AC-740-300, WP022 00).		
(4) Do Initial Setup (WP016 01).		

**Table 4. No Power From Left Fuselage AIM-7 Antenna - 161353 THRU 161705,  
AND 161707 (Continued)**

Procedure	No	Yes
(5) Do Insertion Loss Setup (WP016 01).		
(6) Do Recorder Reference Line Recording for insertion loss hookup no. 5 (WP016 01).		
(7) Do hookup no. 5, table 8.		
<b>NOTE</b>		
Note frequency where insertion loss limit is exceeded. This frequency is $F_O$ , and is used in fault location.		
(8) Do Measurement Recording (WP016 01).		
(9) Does measurement exceed hookup no. 5 maximum allowable insertion loss value (A1-F18AC-740-250/(C), WP016 01)? .....	b	e
b. Do substeps listed below:		
(1) Do Return Loss Setup (WP016 01).		
(2) Do Recording Reference Line Recording for return loss (WP016 01).		
(3) Remove precision (50 ohm) from directional coupler (channel A).		
(4) Do hookup no. 3, table 9.		
<b>NOTE</b>		
When testing antennas, make sure antennas are not within 5 feet of any metal object.		
(5) Do Measurement Recording (WP016 01). Is return loss measurement 14 dB or greater? .....	c	d
c. Replace AIM-7 (left) Fuselage Antenna AS-3424/APG-65 (A1-F18AC-740-300, WP022 00). Do step f. ....	-	-
d. Replace AIM-7 Transmission Line Coupler CU-2265/APG-65 (A1-F18AC-740-300, WP023 00). Do step f. ....	-	-
e. Inspect connectors 60P-P008E and 60P-S011 for damage and repair if necessary. If connectors are not damaged, replace coax cable SF44A (A1-F18AC-740-300, WP023 02), (60W-P526). Do step f. ....	-	-
f. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) AIM-7 (left) Fuselage Antenna AS-3424/APG-65		


**Table 4. No Power From Left Fuselage AIM-7 Antenna - 161353 THRU 161705,  
AND 161707 (Continued)**

Procedure	No	Yes
(2) 60P-P008E (torque 38 to 42 inch-pounds, and safety with lockwire MS20995NC20)		
(3) Door 26 .....	-	-

**Table 5. No Power From Right Fuselage AIM-7 Antenna - 161353 THRU 161705,  
AND 161707**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
AN/USM-402(V)1	Swept Frequency Measurement Test Set	
-	Torque Wrench, 0 to 75 Inch-Pounds	
Materials Required		
Specification or Part Number	Nomenclature	
MS20995NC20	Lockwire	
NOTE		
AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP041 00) may be used as an aid while doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
AIM-7 (Right) Fuselage Antenna AS-3423/APG-65		
AIM-7 Right Fuselage Radio Frequency Cable 60W-P527 (SF47A)		
AIM-7 Transmission Line Coupler CU-2265/APG-65		
Procedure	No	Yes
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		

**Table 5. No Power From Right Fuselage AIM-7 Antenna - 161353 THRU 161705,  
AND 161707 (Continued)**

Procedure	No	Yes
<div style="text-align: center;">  </div>		
<p>To prevent damage to coax cables, do not bend coax cables tighter than one and a half inch radius.</p>		
(2) Open door 26 (A1-F18AC-LMM-010) and disconnect 60P-P008D from J4 on Transmission Line Coupler CU-2265/APG-65.		
(3) Remove AIM-7 (right) Fuselage Antenna AS-3424/APG-65 (A1-F18AC-740-300, WP022 00).		
(4) Do Initial Setup (WP016 01).		
(5) Do Insertion Loss Setup (WP016 01).		
(6) Do Recorder Reference Line Recording for insertion loss hookup no. 6 (WP016 01).		
(7) Do hookup no. 6, table 8.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Note frequency where insertion loss limit is exceeded. This frequency is <math>F_O</math>, and is used in fault location.</p>		
(8) Do Measurement Recording (WP016 01).		
(9) Does measurement exceed hookup no. 6 maximum allowable insertion loss value (A1-F18AC-740-250/(C), WP016 01)? .....	b	e
b. Do substeps listed below.		
(1) Do Return Loss Setup (WP016 01).		
(2) Do Recording Reference Line Recording for return loss (WP016 01).		
(3) Remove precision (50 ohm) from directional coupler (channel A).		
(4) Do hookup no. 4, table 9.		
<p style="text-align: center;"><b>NOTE</b></p> <p>When testing antennas, make sure antennas are not within 5 feet of any metal object.</p>		
(5) Do Measurement Recording (WP016 01). Is return loss measurement 14 dB or greater? .....	c	d


**Table 5. No Power From Right Fuselage AIM-7 Antenna - 161353 THRU 161705, AND 161707 (Continued)**

Procedure	No	Yes
c. Replace AIM-7 (right) Fuselage Antenna AS-3424/APG-65 (A1-F18AC-740-300, WP022 00). Do step f. ....	-	-
d. Replace AIM-7 Transmission Line Coupler CU-2265/APG-65 (A1-F18AC-740-300, WP023 00). Do step f. ....	-	-
e. Inspect connectors 60P-P008D and 60P-T014 for damage and repair if necessary. If connectors are not damaged, replace coax cable SF47A (A1-F18AC-740-300, WP023 03). Do step f. ....	-	-
f. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) AIM-7 (right) Fuselage Antenna AS-3424/APG-65		
(2) 60P-P008D (torque 38 to 42 inch-pounds, and safety with lockwire MS20995NC20)		
(3) Door 26 .....	-	-

**Table 6. No Power From Left Fuselage AIM-7 Antenna - 161706, 161708, AND UP**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
AN/USM-402(V)1	Swept Frequency Measurement Test Set
-	Torque Wrench, 0 to 75 Inch-Pounds
Materials Required	
Specification or Part Number	Nomenclature
MS20995NC20	Lockwire
NOTE	
AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP041 00) may be used as an aid while doing this procedure.	
Component locations are shown in WP007 00.	

**Table 6. No Power From Left Fuselage AIM-7 Antenna - 161706, 161708, AND UP  
(Continued)**

<p>Malfunction is caused by one of the items listed below:</p> <p>AIM-7 (Left) Fuselage Antenna AS-3424/APG-65  AIM-7 Left Fuselage Radio Frequency Cable 60W-P530 (SF44A)  AIM-7 Left Fuselage Radio Frequency Cable 60W-P531 (SF44B)  AIM-7 Transmission Line Coupler CU-2265/APG-65</p>		
Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <div style="text-align: center;">  </div> <p>To prevent damage to coax cables, do not bend coax cables tighter than one and a half inch radius.</p> <p>(2) Open door 26 (A1-F18AC-LMM-010) and disconnect 60P-P008E from J5 on Transmission Line Coupler CU-2265/APG-65.</p> <p>(3) Remove AIM-7 (left) Fuselage Antenna AS-3424/APG-65 (A1-F18AC-740-300, WP022 00).</p> <p>(4) Do Initial Setup (WP016 01).</p> <p>(5) Do Insertion Loss Setup (WP016 01).</p> <p>(6) Do Recorder Reference Line Recording for insertion loss hookup no. 5 (WP016 01).</p> <p>(7) Do hookup no. 5, table 8.</p> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>Note frequency where insertion loss limit is exceeded. This frequency is <math>F_O</math>, and is used in fault location.</p> </div> <p>(8) Do Measurement Recording (WP016 01).</p> <p>(9) Does measurement exceed hookup no. 5 maximum allowable insertion loss value (A1-F18AC-740-250/(C), WP016 01)? .....</p>		
<p>b. Do substeps listed below:</p> <p>(1) Do Return Loss Setup (WP016 01).</p> <p>(2) Do Recording Reference Line Recording for return loss (WP016 01).</p>	b	e

**Table 6. No Power From Left Fuselage AIM-7 Antenna - 161706, 161708, AND UP  
(Continued)**

Procedure	No	Yes
(3) Remove precision (50 ohm) from directional coupler (channel A).		
(4) Do hookup no. 3, table 9.		
<b>NOTE</b>		
When testing antennas, make sure antennas are not within 5 feet of any metal object.		
(5) Do Measurement Recording (WP016 01). Is return loss measurement 14 dB or greater? .....	c	d
c. Replace AIM-7 (left) Fuselage Antenna AS-3424/APG-65 (A1-F18AC-740-300, WP022 00). Do step h. ....	-	-
d. Replace AIM-7 Transmission Line Coupler CU-2265/APG-65 (A1-F18AC-740-300, WP023 00). Do step h. ....	-	-
e. Do substeps listed below:		
(1) Do Fault Location (WP016 01) on coax cables from 60P-P008E to 60P-S011. Use fig 1 for length and connector type.		
(2) Does distance to fault, indicate coax cable SF44A? .....	f	g
f. When distance to fault indicates coax cable SF44B and indicates connector(s) 60P-S011, 60P-S027 or 60J-S027, visually inspect connector(s) for damage and repair if necessary. If connectors are not indicated or damaged, replace coax cable SF44B (A1-F18AC-740-300, WP023 02) (60W-P531). Do step h. ....	-	-
g. When distance to fault indicates coax cable SF44A and connector(s) 60P-P008E, 60J-S027 or 60P-S027, visually inspect connector(s) for damage and repair if necessary. If connectors are not indicated or damaged, replace coax cable SF44A (A1-F18AC-740-300, WP023 02) (60W-P530). Do step h. ....	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) AIM-7 (left) Fuselage Antenna AS-3424/APG-65		
(2) 60P-P008E (torque to 38 to 42 inch-pounds, and safety with lockwire MS20995NC20)		
(3) Door 26 .....	-	-



Table 7. No Power From Right Fuselage AIM-7 Antenna - 161706, 161708 AND UP

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
AN/USM-402(V)1	Swept Frequency Measurement Test Set	
-	Torque Wrench, 0 to 75 Inch-Pounds	
Materials Required		
Specification or Part Number	Nomenclature	
MS20995NC20	Lockwire	
NOTE		
AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP041 00) may be used as an aid while doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
AIM-7 (Right) Fuselage Antenna AS-3424/APG-65 AIM-7 Right Fuselage Radio Frequency Cable 60W-P532 (SF47A) AIM-7 Right Fuselage Radio Frequency Cable 60W-P533 (SF47B) AIM-7 Transmission Line Coupler CU-2265/APG-65		
Procedure	No	Yes
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
<div>CAUTION</div>		
To prevent damage to coax cables, do not bend coax cables tighter than one and a half inch radius.		
(2) Open door 26 (A1-F18AC-LMM-010) and disconnect 60P-P008D from J4 on Transmission Line Coupler CU-2265/APG-65.		
(3) Remove AIM-7 (right) Fuselage Antenna AS-3424/APG-65 (A1-F18AC-740-300, WP022 00).		

**Table 7. No Power From Right Fuselage AIM-7 Antenna - 161706, 161708 AND UP  
(Continued)**

Procedure	No	Yes
(4) Do Initial Setup (WP016 01).  (5) Do Insertion Loss Setup (WP016 01).  (6) Do Recorder Reference Line Recording for insertion loss hookup no. 6 (WP016 01).  (7) Do hookup no. 6, table 8.		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Note frequency where insertion loss limit is exceeded. This frequency is <math>F_O</math>, and is used in fault location.</p>		
(8) Do Measurement Recording (WP016 01).  (9) Does measurement exceed hookup no. 6 maximum allowable insertion loss value(A1-F18AC-740-250/(C), WP016 01)? .....	b	e
b. Do substeps listed below:		
(1) Do Return Loss Setup (WP016 01).  (2) Do Recording Reference Line Recording for return loss (WP016 01).  (3) Do hookup no. 4, table 9.		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">When testing antennas, make sure antennas are not within 5 feet of any metal object.</p>		
(4) Do Measurement Recording (WP016 01). Is return loss measurement 14 dB or greater? .....	c	d
c. Replace AIM-7 (right) Fuselage Antenna AS-3424/APG-65 (A1-F18AC-740-300, WP022 00). Do step h. ....	-	-
d. Replace AIM-7 Transmission Line Coupler CU-2265/APG-65 (A1-F18AC-740-300, WP023 00). Do step h. ....	-	-
e. Do substeps listed below:		
(1) Do Fault Location (WP016 01) on coax cables from 60P-P008D to 60P-T014. Use fig 1 for length and connector type.  (2) Does distance to fault indicate coax cable SF47A? .....	f	g

**Table 7. No Power From Right Fuselage AIM-7 Antenna - 161706, 161708 AND UP  
(Continued)**

Procedure	No	Yes
f. When distance to fault indicates coax cable SF47B and connector(s) 60P-T014, 60P-T029 or 60J-T029, visually inspect connector(s) for damage and repair if necessary. If connectors are not indicated or damaged, replace coax cable SF47B (A1-F18AC-740-300, WP023 03) (60W-P533). Do step h. ....	-	-
g. When distance to fault indicates coax cable SF47A and connector(s) 60P-P008D, 60J-T029, or 60P-T029, visually inspect connector(s) for damage and repair if necessary. If connectors are not indicated or damaged, replace coax cable SF47A (A1-F18AC-740-300, WP023 03) (60W-P532). Do step h. ....	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:  (1) AIM-7 (right) Fuselage Antenna AS-3424/APG-65  (2) 60P-P008D (torque to 38 to 42 inch-pounds, and safety with lockwire MS20995NC20)  (3) Door 26. ....	-	-

**Table 8. Test Hookup Of Unit Under Test For Insertion Loss**

Hookup No.	USM-402 Directional Coupler (Channel R)	USM-402 Directional Coupler (Channel B)
1	01P08 (N Male)	J2 on AIM-7 Transmission Line Coupler (TNC Female)
2	01P08 (N Male)	60P-P008A (TNC Male)
3	60P-P008B (TNC Male)	60P-V016 (N Male)
4	60P-P008C (TNC Male)	60P-U013 (N Male)
5	60P-P008E (TNC Male)	60P-S011 (TNC Male)
6	60P-P008D (TNC Male)	60P-T014 (TNC Male)

**Table 9. Test Hookup Of Unit Under Test For Return Loss**

Hookup No.	USM-402 Directional Coupler (Channel A)
1	60E-V016 (N Female)
2	60E-U013 (N Female)
3	60E-S011 (TNC Female)
4	60E-T014 (TNC Female)

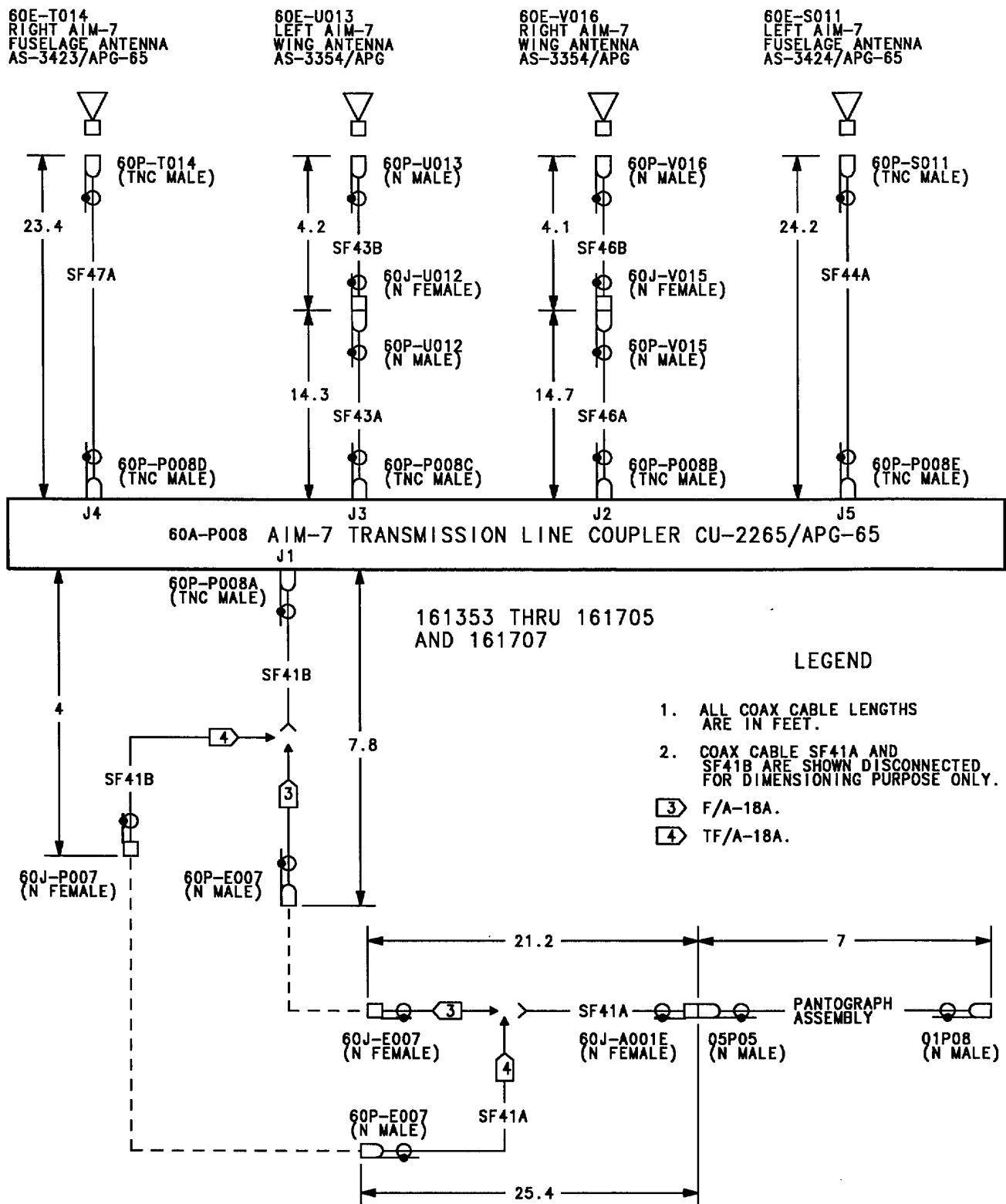


Figure 1. AIM-7 Illumination Antenna System (Sheet 1)

60E-T014  
RIGHT AIM-7  
FUSELAGE ANTENNA  
AS-3423/APG-65

60E-U013  
LEFT AIM-7  
WING ANTENNA  
AS-3354/APG

60E-V016  
RIGHT AIM-7  
WING ANTENNA  
AS-3354/APG

60E-S011  
LEFT AIM-7  
FUSELAGE ANTENNA  
AS-3424/APG-65

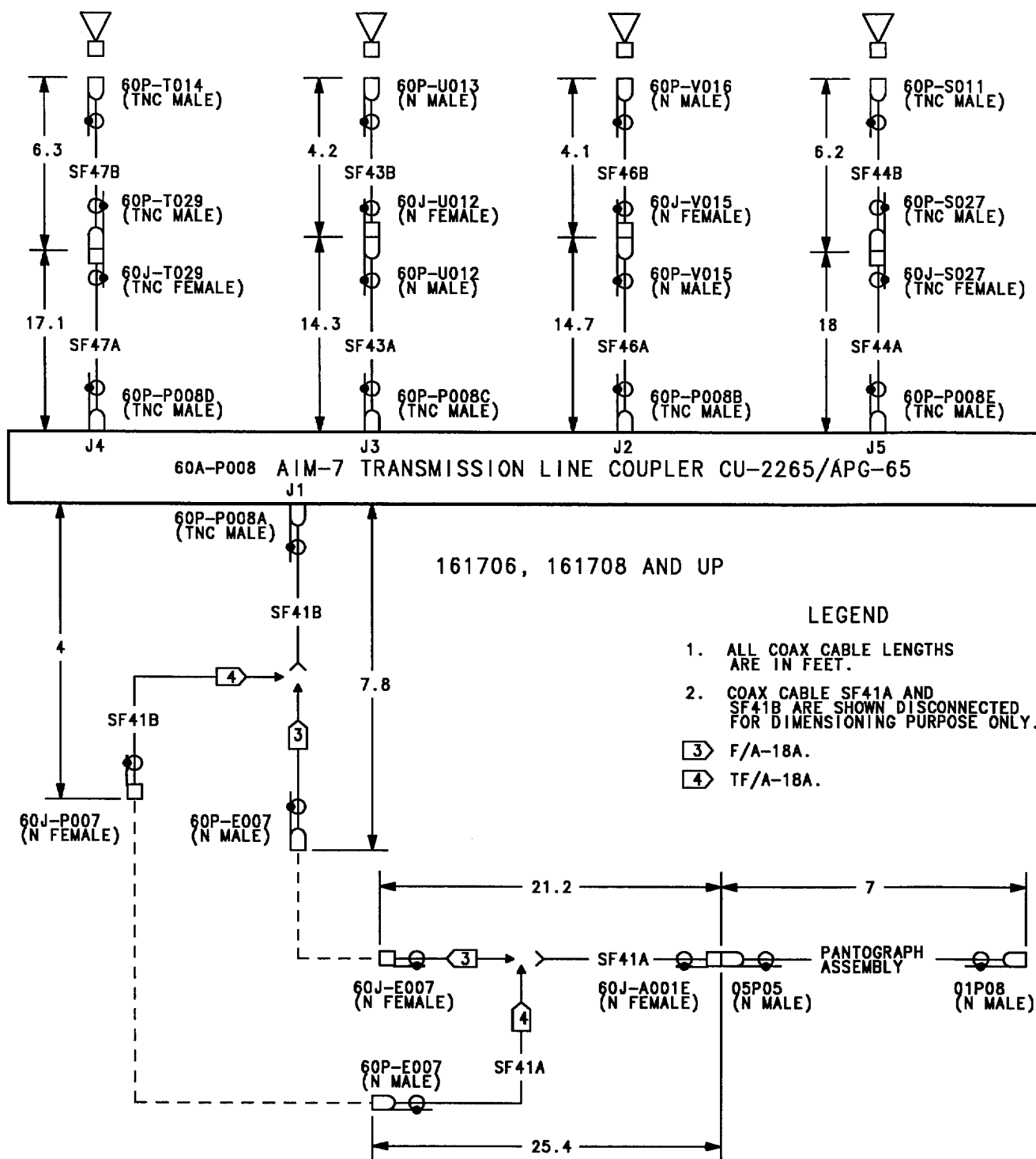


Figure 1. AIM-7 Illumination Antenna System (Sheet 2)



**ORGANIZATIONAL MAINTENANCE****TESTING AND TROUBLESHOOTING****TESTING - AIM-7 LINE/ANTENNA RETURN LOSS AND INSERTION LOSS****AIM-7 ILLUMINATION ANTENNA SYSTEM**

This WP is incomplete without WP016 01 contained in Confidential Supplement A1-F18AC-740-250/C

EFFECTIVITY: F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B

**Reference Material**

Weapon Control System . . . . . A1-F18AC-740-250/(C)  
 AIM-7 Line/Antenna Return Loss and Insertion Loss . . . . . WP016 01

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**Record of Applicable Technical Directives**

None

**Table 1. Initial Setup**

<b>Support Equipment Required</b>	
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>
AN/USM-402A(V)1	Swept Frequency Measurement Test Set
<b>Materials Required</b>	
None	

**Table 1. Initial Setup (Continued)****1. Procedure.****a. Setup Swept Frequency Measurement Test Set AN/USM-402A(V)1 (USM-402) by doing substeps below:**

- (1) Position USM-402 next to unit under test.

**NOTE**

Do not ground USM-402 to aircraft.

- (2) Connect USM-402 ground cable between unpainted surface of USM-402 and good ground source.
- (3) Attach Radio Frequency Recorder RO-469-(P)/USM-402(V) (recorder) to top of USM-402 using attaching straps.
- (4) Obtain hookup cable W3. Connect W3P2 to 1J2 of USM-402 and W3P1 to 2J1 of recorder.
- (5) On control panel, make sure POWER switch is set to OFF.

**NOTE**

USM-402 operates on 105 to 125vac, 50 to 400 Hz power.

- (6) Connect USM-402 power cable W1 between 1J1 and 105 to 125vac, 50 to 60 Hz power source. If 105 to 125vac, 400 Hz power source is more accessible, use adapter W2 to connect power cable W1 to 400 Hz power source.
- (7) On control panel, set POWER switch to ON.
- (8) On oscilloscope, set LINE switch to ON.
- (9) On sweep oscillator, press POWER pushbutton.



Do not connect detectors directly to high frequency output of sweep oscillator unless internal leveling (LEVELING INT) is selected on oscillator unit. The high frequency RF output may be strong enough to damage detectors in unleveled mode.

To prevent possible detector damage, touch a ground point before handling detectors to avoid static discharge from hands through detector.

- b. Connect USM-402 directional couplers, and detectors to swept amplitude analyzer and oscillator using USM-402 rf cables. Use applicable rf cables necessary to reach unit under test. Refer to fig 1.
- c. On sweep oscillator, set the below controls:



Table 1. Initial Setup (Continued)

**NOTE**

Off is with black ring visible.

SWEEP TIME (SEC)	0.01
VARIABLE	Midrange
TRIGGER	INT
MANUAL SWEEP	Full CCW and pushed
RF MARKER	Off
RF AM	Off
RF BLANKING	Off
MARKER AMPL	OFF (full CCW)
Sweep Mode	Select full band by pressing center of control marked FULL BAND.
M1	Not used
$\Delta F$	Not used
F <sub>O</sub>	Not used
F <sub>O</sub> FINE	Not used
M2	Not used

d. On oscillator unit, set the below controls:

LEVELING	INT
PM (RF OFF)	On (pressed)

**NOTE**

Sweep frequencies are listed in AIM-7 Illumination Antenna System Sweep Frequencies (A1-F18AC-740-250/(C), WP016 01).

e. On controller, set the below controls:

**NOTE**

Select the narrowest spectrum that includes selected range and sweep frequencies.

FREQ RANGE GHz	Select range and frequency scale of interest.
LEVEL CONTROL	Maximum leveled power (turn LEVEL CONTROL maximum CW until UNLEVELED WHEN LIT lamp comes on, then CCW until lamp goes out).

f. On swept amplitude analyzer, set the below controls:

SMOOTHING	Off (out)
<u>CHANNEL A</u>	
DISPLAY POSITION	Press

Table 1. Initial Setup (Continued)

OFFSET dB	+00.0
OFFSET CAL	ON
dB/DIV	10

**NOTE**

Channel B display is turned off by slightly pressing one of the CHANNEL B DISPLAY pushbuttons already in the out (off) position. This action releases all pushbuttons from their detent position.

CHANNEL B

DISPLAY	Off
OFFSET dB	+00.0
OFFSET CAL	ON
dB/DIV	10

- g. On oscilloscope, set the below controls:

DISPLAY	EXT SENS
INTENSITY	Adjust for visible trace.
FOCUS	Adjust for sharp trace (use FIND BEAM and HORIZONTAL POSITION as necessary).
SCALE	Set so that grid lines (CRT graticules) are visible.
AC/DC	DC
MAGNIFIER	X5
HORIZONTAL POSITION	Position left edge of trace on left vertical graticule.
DISPLAY	Adjust external sensitivity so that trace fills full width of horizontal scale.
ASTIGMATISM	Adjust for sharp trace.
TRACE ALIGN	Adjust to align trace with horizontal graticule.

- h. On swept amplitude analyzer, use CHANNEL A DISPLAY POSITION screwdriver adjustment to set channel A sweep position at second horizontal graticule from top of oscilloscope. (Another graticule may be selected at option of the operator.) This is the position graticule.

**NOTE**

Channel A display is turned off by slightly pressing one of the CHANNEL A DISPLAY pushbuttons. This releases all pushbuttons from their detent position.

- i. On swept amplitude analyzer, turn off channel A display and press CHANNEL B DISPLAY POSITION pushbutton.


**NOTE**

Adjustment of oscilloscope controls is not necessary to obtain a channel B trace. If adjustment becomes necessary, this is an indication of a malfunction in the swept amplitude analyzer.

**Table 1. Initial Setup (Continued)**

- j. On swept amplitude analyzer, use screwdriver adjustment to set channel B sweep position to same horizontal graticule used in step h.

**Table 2. Insertion Loss Setup**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
AN/USM-402A(V)1	Swept Frequency Measurement Test Set
Materials Required	
None	
1. Procedure.	
a. Use fig 1 to select USM-402 components for insertion loss setup.	
<div style="text-align: center;">  </div>	
<p>When connecting 7mm adapters to directional couplers, do not tighten both connectors at the same time. Tightening both connectors at the same time may cause an over-tight condition, damaging connector threads.</p>	
<p style="text-align: center;"><b>NOTE</b></p> <p>It may not be possible to use same adapters for reference line as will be used when connecting to unit under test. For example, if unit has a TNC male on one end, and a N male on the other end, the reference line should be established using a TNC male-female pair so that only one adapter will have to be changed to measure insertion loss through the unit under test.</p>	
<p>Make sure the directional couplers used for calibration, are capable of the frequencies required for testing.</p>	
b. Connect USM-402 components for calibration per fig 1.	
c. On sweep oscillator, set the below controls:	
<p style="text-align: center;"><b>NOTE</b></p> <p>Off is with black ring visible.</p>	
SWEEP TIME (SEC)	0.01
VARIABLE	Midrange
TRIGGER INT	On (pressed)

**Table 2. Insertion Loss Setup (Continued)**

MANUAL SWEEP	Full CCW and pushed
RF MARKER	Off
RF AM	Off
RF BLANKING	Off
MARKER AMPL	OFF (full CCW)

**NOTE**

Sweep frequencies are listed in AIM-7 Illumination Antenna System Sweep Frequencies (A1-F18AC-740-250/(C), WP016 01).

Sweep Mode	M1 M2
M1	Set at lowest frequency of interest.
$\Delta F$	Not used
F <sub>O</sub>	Not used
F <sub>O</sub> FINE	Not used
M2	Set at highest frequency of interest.

d. On oscillator unit, set the below controls:

LEVELING	INT
PM (RF OFF)	On (pressed)

**NOTE**

Sweep frequencies are listed in AIM-7 Illumination Antenna System Sweep Frequencies (A1-F18AC-740-250/(C), WP016 01).

e. On controller, set the below controls:

**NOTE**

Select the narrowest spectrum that includes selected range and sweep frequencies.

FREQ RANGE GHz	Select range and frequency scale of interest.
LEVEL CONTROL	Maximum leveled power (turn LEVEL CONTROL maximum CW until UNLEVELED WHEN LIT lamp comes on, then CCW until lamp goes out).

f. On swept amplitude analyzer, set the below controls:

SMOOTHING	Off (out)
<u>CHANNEL A</u>	
DISPLAY	Off (Slightly pressing one of the CHANNEL A DISPLAY pushbuttons will turn off channel A)

**Table 2. Insertion Loss Setup (Continued)**

<u>CHANNEL B</u>	
DISPLAY	B/R
OFFSET dB	+00.0
OFFSET CAL	ON
dB/DIV	2
g. On oscilloscope, set the below controls:	
AC/DC	DC
MAGNIFIER	X5
h. On swept amplitude analyzer, use CHANNEL B OFFSET CAL vernier, to vertically position the left edge of trace on crt position graticule. Trace now represents the upper reference line.	
<b>NOTE</b>	
Do not change CHANNEL B OFFSET CAL vernier setting until measurement is completed.	
i. Measure peak-to-peak variation of reference line. If peak-to-peak variation is greater than 2dB, inspect USM-402 hookup for loose connections. Replace USM-402, if no faults are found in hookup.	
j. Set CHANNEL B dB/DIV to 2 for insertion loss hookups 3 through 6, and to 5 for insertion loss hookups 1 and 2.	
k. Do table 4, RECORDER SETUP.	

**Table 3. Return Loss Setup**

<b>Support Equipment Required</b>	
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>
AN/USM-402A(V)1	Swept Frequency Measurement Test Set
<b>Materials Required</b>	
None	
1. Procedure.	
a. Use fig 2 to select USM-402 components for return loss setup.	

Table 3. Return Loss Setup (Continued)



When connecting 7mm adapters to directional couplers, do not tighten both connectors at the same time. Tightening both connectors at the same time may cause an over-tight condition, damaging connector threads.

NOTE

It may not be possible to use same adapters for reference line as will be used when connecting to unit under test. For example, if unit has a TNC male on one end, and a N male on the other end, reference line should be established using a TNC male-fe-male pair so that only one adapter will have to be changed to measure return loss through the unit.

Make sure the directional couplers used for calibration, are capable of the frequencies required for testing.

- b. Connect USM-402 components for calibration per fig 2.
- c. On oscillator, set the below controls:

LEVELING	INT
PM (RF OFF)	On (pressed)

NOTE

Sweep frequencies are listed in AIM-7 Illumination Antenna System Sweep Frequencies (A1-F18AC-740-250/(C), WP016 01).

- d. On controller, set the below controls:

NOTE

Select the narrowest spectrum that includes selected range and sweep frequencies.

FREQ RANGE GHz	Select range and frequency scale of interest.
LEVEL CONTROL	Maximum leveled power (turn LEVEL CONTROL maximum CW until UNLEVELED WHEN LIT lamp comes on, then CCW until lamp goes out).

- e. On sweep oscillator, set the below controls:

NOTE

Off is with black ring visible.

SWEEP TIME (SEC)	0.01
------------------	------

Table 3. Return Loss Setup (Continued)

VARIABLE	Midrange
TRIGGER INT	On (pressed)
MANUAL SWEEP	Full CCW and pushed
RF MARKER	Off
RF AM	Off
RF BLANKING	Off
MARKER AMPL	OFF (full CCW)
Sweep Mode	M1 M2

**NOTE**

Sweep frequencies are listed in AIM-7 Illumination Antenna System Sweep Frequencies (A1-F18AC-740-250/(C), WP016 01).

M1	Set at lowest frequency of interest.
$\Delta F$	Not used
$F_O$	Not used
$F_O$ FINE	Not used
M2	Set at highest frequency of interest.

f. On swept amplitude analyzer, set the below controls:

SMOOTHING	Off (out)
-----------	-----------

CHANNEL A

DISPLAY	AIR
OFFSET dB	+00.0
OFFSET CAL	ON
dB/DIV	10

CHANNEL B

DISPLAY	Off (Slightly pressing one of the CHANNEL B DISPLAY pushbuttons will turn off channel B)
---------	--

g. On oscilloscope, set the below controls:

AC/DC	DC
MAGNIFIER	X5

- h. On swept amplitude analyzer, use CHANNEL A OFFSET CAL vernier, position left edge of trace on crt position graticule.
- i. Set CHANNEL A dB/DIV to 2dB/DIV and again position left edge of trace on crt position graticule using CHANNEL A OFFSET CAL vernier. Trace now represents reference line.

**Table 3. Return Loss Setup (Continued)****NOTE**

Do not change CHANNEL A OFFSET CAL vernier setting until measurement is completed.

- j. Measure peak-to-peak variation of reference line. If greater than 3dB, inspect USM-402 hookup for loose connectors. Replace USM-402, if no faults are found in hookup.
- k. On swept amplitude analyzer, set CHANNEL A dB/DIV to 5.
- l. Do table 4, RECORDER SETUP.

**Table 4. Recorder Setup****Support Equipment Required****Part Number or  
Type Designation**

AN/USM-402A(V)1

**Nomenclature**

Swept Frequency  
Measurement Test Set

**Materials Required**

None

## 1. Procedure.

- a. On recorder, set the below controls:

POWER	off (switch light is out)
SERVO	OFF
CHART	OFF
PEN	OFF
X module selector switch (left slide switch)	X1
Y module selector switch (middle slide switch)	Y1
SETUP/RECORD switch (right slide switch)	SETUP
X1 RANGE	0.5 VOLTS/INCH
Y1 RANGE	0.5 VOLTS/INCH

- b. On sweep oscillator, set the below controls:

VARIABLE	CAL
Sweep Mode	M1/M2



Table 4. Recorder Setup (Continued)

**NOTE**

Sweep frequencies are listed in AIM-7 Illumination Antenna System Sweep Frequencies (A1-F18AC-740-250/(C), WP016 01).

- c. On controller, set the below controls:

**NOTE**

Select the narrowest spectrum that includes selected range and sweep frequencies.

FREQ RANGE GHz	Select range and frequency scale of interest.
LEVEL CONTROL	Maximum leveled power (turn LEVEL CONTROL maximum CW until UNLEVELED WHEN LIT lamp comes on, then CCW until lamp goes out).

- d. On swept amplitude analyzer, set the below controls:

CHANNEL A

dB/DIV	5
DISPLAY (for insertion loss)	Off
DISPLAY (for return loss)	A/R

CHANNEL B

dB/DIV	5
DISPLAY (for insertion loss)	B/R
DISPLAY (for return loss)	Off

- e. Place disposable fiber tip pen in holder on recorder arm.
- f. Set RMT PEN LIFT switch on control panel to OFF.
- g. On recorder, press POWER switch (switch light comes on).
- h. Place graph paper on recorder.

**NOTE**

The CHART switch activates an electrostatic paper hold-down. Under conditions of high humidity and/or high wind, electrostatic force may be insufficient and it may be necessary to secure graph paper with tape.

- i. Press recorder CHART switch and use mechanical hold-down to secure graph paper.

Table 4. Recorder Setup (Continued)

- j. On sweep oscillator, select manual sweep mode by pulling MANUAL SWEEP knob to out position.



To avoid damaging crt, reduce crt intensity when manual sweep mode is selected.

- k. Adjust oscilloscope INTENSITY CONTROL until initial point of trace is just visible.
- l. On sweep oscillator, set MANUAL SWEEP knob to the maximum CCW position. A dot should be visible on left side of crt position graticule.
- m. On control panel, set RCDR CHAN switch to B for insertion loss setup, or A for return loss setup.
- n. On recorder, press SERVO pushbutton switch.
- o. Use X and Y ZERO controls to position recorder pen over vertical grid line at left margin one major division (1 inch) from top of graph paper grid.
- p. On sweep oscillator, set MANUAL SWEEP knob to maximum CW position to move pen to right margin.
- q. On recorder, adjust X VERNIER control to position recorder pen on vertical grid line at right margin.
- r. On sweep oscillator, turn MANUAL SWEEP knob to maximum CCW position. Check that pen is on the left vertical grid line. Adjust X ZERO control for correct position.
- s. On swept amplitude analyzer, select 5 dB/DIV and dial in +10.0 on OFFSET dB thumbwheels for channel being used. On recorder, recorder pen moves down two divisions (2 inches).
- t. On recorder, adjust the Y VERNIER control so that pen is exactly one major division (2 inches) down graph paper.
- u. Dial in +00.0 on OFFSET dB thumbwheels for swept amplitude analyzer channel being used. If pen does not move back to its original position, one major division from top of graph paper, move pen to that position using the Y ZERO control, and repeat steps t and u.
- v. On sweep amplitude analyzer, set applicable OFFSET dB thumbwheel switches at +10dB increments, make sure that recorder pen moves down two major division for each +10dB of offset dialed in.
- w. Repeat steps r through t until recorder pen moves down two major divisions for each +10dB of offset dialed in.
- x. Press recorder SERVO switch to off.

Table 5. Recorder Reference Line Recording

Support Equipment Required	
Part Number or Type Designation	Nomenclature
AN/USM-402A(V)1	Swept Frequency Measurement Test Set
Materials Required	
None	
1. Procedure.	
a. On sweep oscillator, set the below controls:	
NOTE	
Sweep frequencies are listed in AIM-7 Illumination Antenna System Sweep Frequencies (A1-F18AC-740-250/(C), WP016 01).	
Off is with black ring visible.	
SWEEP TIME (SEC)	0.01
VARIABLE	Midrange
MANUAL SWEEP	Pushed in
RF MARKER	Off
RF AM	Off
RF BLANKING	Off
MARKER AMPL	OFF (fully CCW)
Sweep Mode	M1 M2
M1	Set at lowest frequency of interest.
$\Delta F$	Not used
Fo	Not used
Fo FINE	Not used
M2	Set at highest frequency of interest.
b. On oscillator unit, set the below controls:	
LEVELING	INT
PM (RF OFF)	On (pressed)
c. On controller, set the below controls:	
NOTE	
Sweep frequencies are listed in AIM-7 Illumination Antenna System Sweep Frequencies (A1-F18AC-740-250/(C), WP016 01). Select the narrowest spectrum that includes selected range and sweep frequencies.	
FREQ RANGE GHz	Select range and frequency scale of interest

Table 5. Recorder Reference Line Recording (Continued)

## LEVEL CONTROL

Maximum leveled power (turn LEVEL CONTROL maximum CW until UNLEVELED WHEN LIT lamp comes on, then CCW until lamp goes out).

- d. On swept amplitude analyzer, set the below controls:

## SMOOTHING

Off (out)

CHANNEL A

OFFSET dB +00.0

OFFSET CAL ON

DISPLAY (for insertion loss) Off

DISPLAY (for return loss) A/R

CHANNEL B

OFFSET dB +00.0

OFFSET CAL ON

DISPLAY (for insertion loss) B/R

DISPLAY (for return loss) Off

- e. For return loss test, on swept amplitude analyzer, set CHANNEL A dB/DIV to 5.
- f. For insertion loss test, on swept amplitude analyzer, set CHANNEL B dB/DIV to 5.
- g. Place new graph paper on the recorder. Use recorder CHART switch to hold graph paper in place or use the mechanical holddown if electrostatic holddown is not satisfactory.



To avoid damaging the crt, reduce crt intensity when manual sweep mode is selected.

- h. On sweep oscillator, pull MANUAL SWEEP knob to the out position.
- i. Rotate the MANUAL SWEEP knob fully CCW.
- j. When recording, ensure that the correct channel (A for return loss or B for insertion loss) is selected on the control panel.
- k. On recorder, set SETUP/RECORD switch to SETUP.
- l. Press recorder SERVO switch to on.

**Table 5. Recorder Reference Line Recording (Continued)**

- m. Using X and Y ZERO controls, position the recorder pen over vertical grid line at left margin one major division from the top of graph paper grid.
- n. On recorder, press SERVO switch to OFF.
- o. On sweep oscillator, set SWEEP TIME (SEC) to 10 and TRIGGER to EXT.

**NOTE**

Pushing in MANUAL SWEEP knob may start a sweep. Whenever a sweep is started, it can be reset by pushing the sweep oscillator TRIGGER SINGLE sweep pushbutton.

- p. Push MANUAL SWEEP knob in.
- q. On oscilloscope, adjust INTENSITY control until trace is just visible.
- r. On recorder, press SERVO switch to on and set SETUP/RECORD switch to RECORD.
- s. On control panel, set RMT PEN LIFT switch to ON.
- t. On sweep oscillator, press TRIGGER SINGLE pushbutton to initiate a sweep.
- u. When the recorder arm has reset after completing the sweep, set swept amplitude analyzer OFFSET dB thumbwheel switches to the applicable allowable loss;

**Insertion Loss**

Maximum allowable insertion loss values are listed in Maximum Allowable Insertion Loss Values (A1-F18AC-740-250/(C), WP016 01).

**Return Loss**

Minimum allowable return loss for AIM-7 antennas 14.0 (dB)

- v. On sweep oscillator, press TRIGGER SINGLE pushbutton.
- w. When the recorder arm has reset after completing the sweep, on swept amplitude analyzer, set OFFSET dB thumbwheel switches to 00.0.
- x. On control panel, set RMT PEN LIFT switch to OFF.
- y. On recorder, press SERVO switch to OFF.
- z. On sweep oscillator, set SWEEP TIME (SEC) to 0.01 and TRIGGER to INT.

**Table 6. Measurement Recording****Support Equipment Required****Part Number or  
Type Designation**

AN/USM-402A(V)1

**Nomenclature**

Swept Frequency  
Measurement Test Set

**Table 6. Measurement Recording (Continued)**

<b>Materials Required</b>	
None	
1. Procedure.	
a. Record measurements by doing the substeps below.	
(1) On oscilloscope, adjust INTENSITY control until trace is just visible.	
(2) On sweep oscillator, set SWEEP TIME (SEC) to 10 and TRIGGER to EXT.	
(3) When trace is complete, on recorder, press SERVO switch to on.	
(4) On control panel, set RMT PEN LIFT switch to ON.	
(5) On sweep oscillator, press TRIGGER SINGLE pushbutton. Measurement of unit under test is recorded on graph paper.	
<b>NOTE</b>	
When testing a transmission line with fine grain variation, slow the sweep by setting the VARIABLE knob on the sweep oscillator fully CW.	
(6) After recorder arm has reset, on control panel, set RMT PEN LIFT switch to OFF.	
(7) On recorder, press SERVO switch to off.	

**Table 7. Fault Location**

<b>Support Equipment Required</b>	
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>
AN/USM-402A(V)1	Swept Frequency Measurement Test Set
<b>Materials Required</b>	
None	
1. Procedure.	
a. Use fig 3 to select USM-402 components for fault location setup.	
b. Connect USM-402 components per figure 3, using same adapters as will be used to mate unit under test.	
c. On sweep oscillator, set the below controls:	

Table 7. Fault Location (Continued)

**NOTE**

Select the narrowest spectrum that includes selected range and sweep frequencies.

SWEEP TIME (SEC)	0.01
VARIABLE	CAL
TRIGGER INT	On (pressed)
MANUAL SWEEP	Fully CCW and pushed
RF MARKER	Off
RF AM	Off
RF BLANKING	Off
MARKER AMPL	OFF (fully CCW)
Sweep Mode	$F_0/\Delta F$
M1	Not used
$\Delta F$	To be set later
$F_0$	Set at frequency where discontinuity was observed.
$F_0$ FINE	0
M2	Not used

d. On oscillator unit, set the below controls:

LEVELING	INT
PM (RF OFF)	On (pressed)

**NOTE**

Sweep frequencies are listed in AIM-7 Illumination Antenna System Sweep Frequencies (A1-F18AC-740-250/(C), WP016 01).

Select the narrowest spectrum that includes selected range and sweep frequencies.

e. On controller, set the below controls:

FREQ RANGE GHz	Select range and frequency scale of interest.
LEVEL CONTROL	Maximum leveled power (turn LEVEL CONTROL maximum CW until UNLEVELED WHEN LIT lamp comes on, then CCW until lamp goes out).

f. On swept amplitude analyzer, set the below controls:

SMOOTHING	Off (out)
<u>CHANNEL A</u>	
DISPLAY	Off

Table 7. Fault Location (Continued)

CHANNEL B

DISPLAY	B/R
OFFSET dB	+00.0
OFFSET CAL	ON
dB/DIV	5

- g. On oscilloscope, set the below controls:

AC/DC	DC
MAGNIFIER	X5

- h. Connect 14 foot calibration cable to power divider. Do not terminate calibration cable.

**NOTE**

The rf hookup extension cable may be used as a calibration cable. It is 14 feet ~~14~~ inches long.

- i. On swept amplitude analyzer, adjust the CHANNEL B OFFSET CAL vernier to vertically position the trace to left vertical graticule on crt.
- j. Adjust sweep oscillator  $\Delta F$  control so that a ripple appears on crt for every 2 feet of calibration cable. If rf hookup cable is used, adjust  $\Delta F$  for seven ripples. Sweep oscillator  $F_0$  control can be adjusted slightly to position bottom of a ripple skirt to left vertical graticule. Ripple calibration factor is 2 feet.

**NOTE**

$\Delta F$  can be adjusted for other ripple calibration factors, such as 1 foot per ripple, if necessary.

- k. Remove calibration cable and connect power divider to unit under test.  $F_0$  control can be adjusted to position bottom edge of a ripple skirt on left vertical graticule line; however,  $\Delta F$  should not be changed from calibration setting.

**NOTE**

Multiple defects can cause very complex displays, making evaluation of number of ripples due to any one defect extremely difficult. Each repetitive ripple pattern must be counted independently even though it is superimposed on other patterns.

- l. Count number of ripples including fractions of a ripple.
- m. Multiply number of ripples, including fractions of a ripple for each repetitive ripple pattern, by the ripple calibration factor. This distance, in feet, represents distance to fault from where the USM-402 is connected to unit under test.



Table 8. Shutdown

Support Equipment Required	
Part Number or Type Designation	Nomenclature
AN/USM-402A(V)1	Swept Frequency Measurement Test Set
Materials Required	
None	
1. Procedure.	
a. If recorder was used, zero pen assembly by pressing and holding X and Y ZERO CHECK pushbuttons until pen arm is at zero position.	
b. On recorder, press POWER and SERVO pushbuttons to off (pushbutton lamps are out).	
c. Cap disposable pen.	
d. On control panel, set POWER switch to OFF.	
e. Disconnect all rf hookup, power cables and store.	
NOTE	
Make sure all cable connectors and accessories are capped. If caps are not available, extend threaded sleeve of 7mm connectors to protect connector interface surface.	
f. Store accessories in the proper drawers.	
g. Remove recorder from top of USM-402 and install cover.	
h. Close all doors and drawers on USM-402 and secure. Fold down writing table.	
i. Cap USM-402 power connector 1J1.	

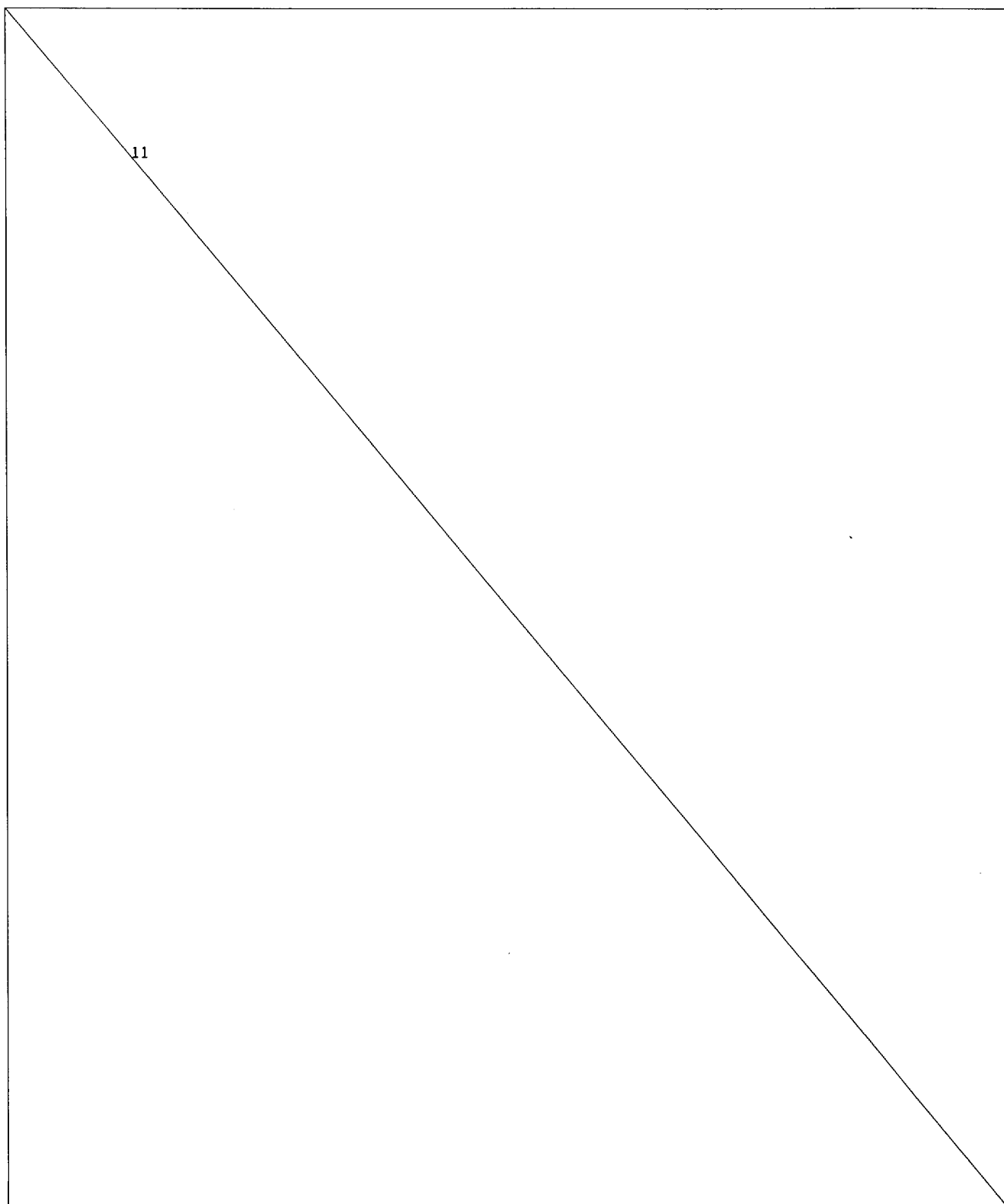


Figure 1. Initial/Insertion Loss Setup

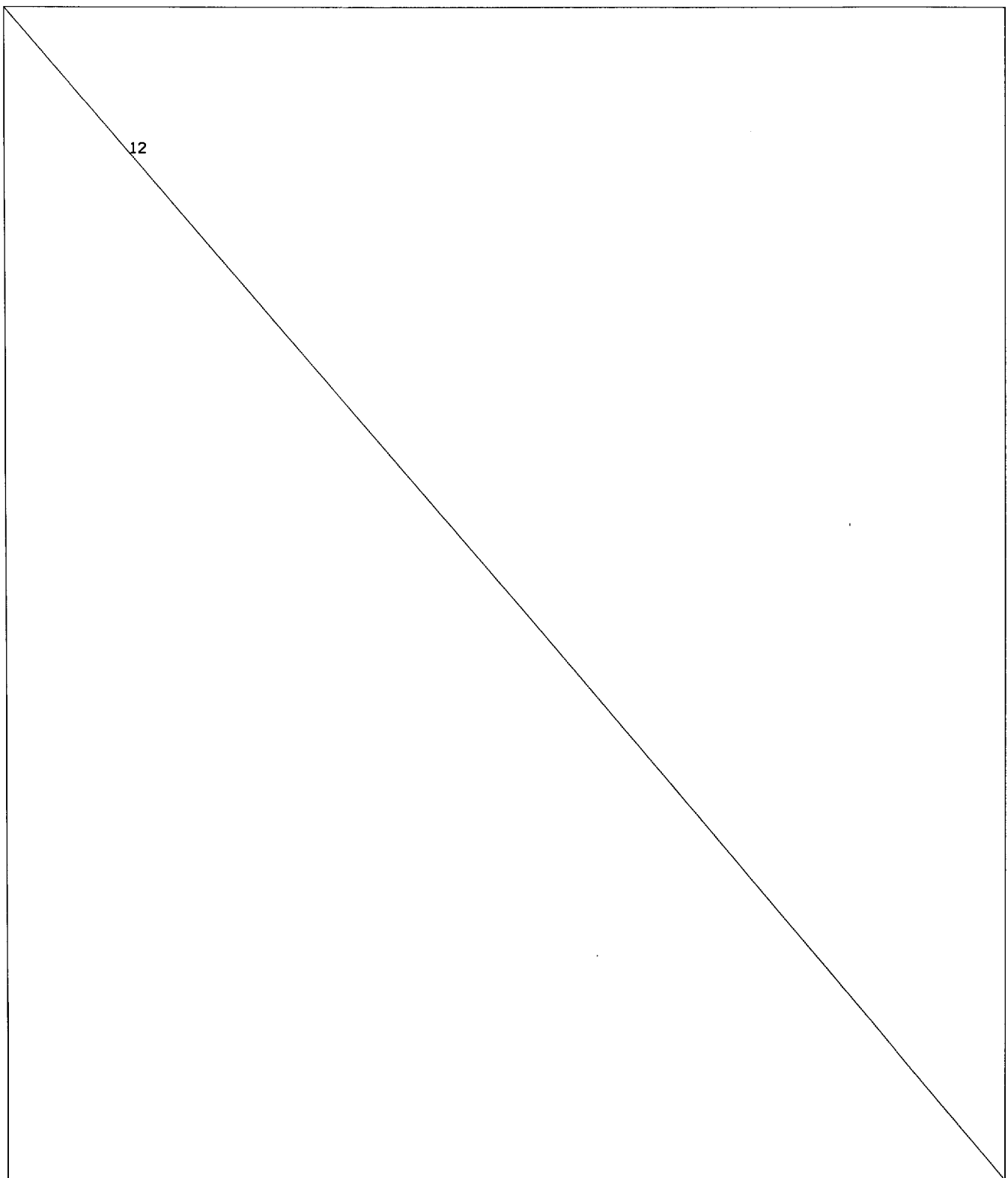
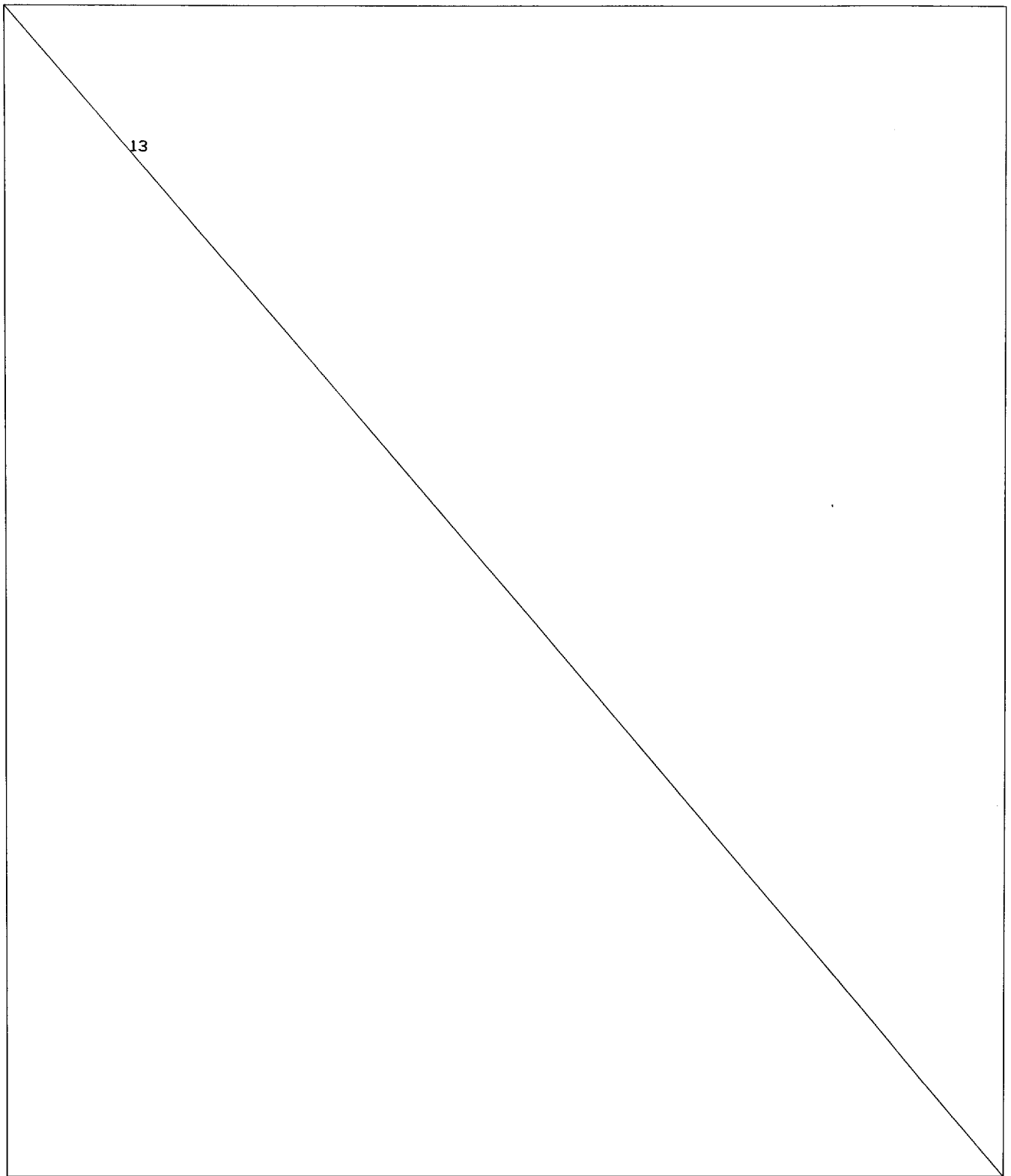


Figure 2. Return Loss Setup



**Figure 3. Fault Location Setup**

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 ILLUMINATION ANTENNA TEST, PART 1

## AIM-7 ILLUMINATION ANTENNA SYSTEM

EFFECTIVITY: F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
AIM-7 Line/Antenna Fault Location .....	WP016 04
AIM-7 Line/Antenna Return Loss and Insertion Loss .....	WP016 05
Weapon Control System .....	A1-F18AC-740-250/(C)
AIM-7 Line/Antenna Return Loss and Insertion Loss .....	WP016 01

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. No Power From Any AIM-7 Antenna

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
1324AS100-1	Swept Frequency Measurement Test Set AN/USM-482	
1324AS310	Interconnecting Group ON-303(V)2/USM-482	
-	Torque Wrench, 0 to 75 Inch-Pounds	
Materials Required		
Specification or Type Designation	Nomenclature	
MS20995NC20	Lockwire	
NOTE		
AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP045 00) may be used as an aid while doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
AIM-7 Radio Frequency Cable 60W-P529 AIM-7 Transmission Line Coupler CU-2265/APG-65 Pantograph Assembly Radar Transmitter T-1377/APG-65		
Procedure	No	Yes
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
<div>CAUTION</div>		
To prevent damage to coax cables, do not bend coax cables tighter than one and a half inch radius.		
(2) Open door 26 (A1-F18AC-LMM-010), and disconnect 60P-P008B from J2 on AIM-7 Transmission Line Coupler CU-2265/APG-65.		
(3) On aircraft after F/A-18 AFC-253, extended Radar Set AN/APG-65 (A1-F18AC-742-300, WP003 00) or after F/A-18 AFC 292, extend Radar Set AN/APG-73 (A1-F18AH-742-300, WP003 00) and disconnect 01P08 from Radar Transmitter T-1377/APG-65.		
(4) Do start up procedure and confidence check (NAVAIR 16-30USM482-1).		
(5) Remove adapters and extension cables from test set and interconnecting group needed for insertion loss hookup no. 1, table 3 (WP016 03).		
(6) Do Insertion Loss Reference, table 1 (WP016 04).		

Table 1. No Power From Any AIM-7 Antenna (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of adapters, attenuators or detectors assembly.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>To maintain accuracy in readings, connectors must be kept clean and mated properly.</p>		
(7) Do hookup no. 1, table 3 (WP016 03) (figure 1).		
(8) Do Insertion Loss Measurement, table 2 (WP016 04).		
(9) Does measurement exceed hookup no. 1 maximum allowable insertion loss value (A1-F18AC-740-250/(C), WP016 01)? .....	b	c
b. On aircraft after F/A-18 AFC 253, replace Radar Transmitter T-1377/APG-65 (A1-F18AC-742-300, WP007 00). Do step n and shutdown, table 2 (WP016 04) .....	-	-
On aircraft after F/A-18 AFC 292, replace Radar Transmitter T-1377/APG-65 (A1-F18AH-742-300, WP007 00). Do step n and shutdown, table 2 (WP016 05) .....	-	-
c. Do substeps listed below:		
(1) Disconnect adapters, extension cables, RF cable, and detector assembly from unit under test.		
(2) Store adapters for hookup 1, on detector assembly side, in test set and interconnecting group.		
(3) Remove adapters and extension cables from test set and interconnecting group needed for insertion loss hookup no. 2, table 3 (WP016 03).		
(4) Do Insertion Loss Reference, table 1 (WP016 04).		
(5) Disconnect 60P-P008A from J1 on AIM-7 Transmission Line Coupler CU-2265/APG-65.		
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of adapters, attenuators or detectors assembly.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>To maintain accuracy in readings, connectors must be kept clean and mated properly.</p>		
(6) Do hookup no. 2, table 3 (WP016 03) (figure 1).		
<p style="text-align: center;"><b>NOTE</b></p> <p>Note frequency where insertion loss limit is exceeded. The frequency is <math>F_0</math> and is used in fault location.</p>		
(7) Do Insertion Loss Measurement, table 2 (WP016 04).		

Table 1. No Power From Any AIM-7 Antenna (Continued)

Procedure	No	Yes
(8) Does measurement exceed hookup no. 2 maximum allowable insertion loss value (A1-F18AC-740-250/(C), WP016 01)? .....	d	e
d. Replace AIM-7 Transmission Line Coupler CU-2265/APG-65 (A1-F18AC-740-300, WP022 00). Do step n and Shutdown, table 2 (WP016 05). ....	-	-
e. Do substeps listed below:		
(1) Disconnect and store adapters and extension cables from test set and unit under test.		
(2) Do Fault Location, table 1 (WP016 05) on coax cables from 01P08 to 60P-P008A. Use figure 1 (WP016 03) for length and connector type.		
(3) Does distance to fault indicate pantograph assembly? .....	f	m
f. Does distance to fault indicate coax cable SF41C? .....	g	i
g. Does distance to fault indicate coax cable SF41B? .....	h	j
h. Does distance to fault indicate coax cable SF41A? .....	l	k
i. When distance to fault indicates SF41C and connector(s) 60J-A001E, 60J-A033, 60J-H033, do substeps below:		
(1) Visually inspect connector(s) for damage and repair if necessary (A1-F18A( )-WRM-000). If connectors are not indicated or damaged, replace coax cable SF41C (A1-F18AC-740-300, WP023 05).		
(2) Do substep n and Shutdown, table 2 (WP016 05) .....	-	-
j. When distance to fault indicates SF41B and connector(s) 60P-A033, 60J-H033, 60J-H032, or 60P-C032, do substeps below:		
(1) Visually inspect connector(s) for damage and repair if necessary (A1-F18A( )-WRM-000). If connectors are not indicated or damaged, replace coax cable SF41B (A1-F18AC-740-300, WP023 05).		
(2) Do substep n and Shutdown, table 2 (WP016 05) .....	-	-
k. When distance to fault indicates SF41A and connector(s) 60J-H032, 60P-C032, 60P-E007, 60J-E007, 60J-P007, or 60P-P007, do substeps below:		
(1) Visually inspect connector(s) for damage and repair if necessary (A1-F18A( )-WRM-000). If connectors are not indicated or damaged, replace coax cable SF41A (A1-F18AC-740-300, WP023 05).		
(2) Do substep n and Shutdown, table 2 (WP016 05) .....	-	-
l. When distance to fault indicates SF41 and connector(s) 60P-P008A, 60P-P007, 60J-P007, do substeps below:		
(1) Visually inspect connector(s) for damage and repair if necessary (A1-F18A( )-WRM-000).		
(2) If connectors are not indicated or damaged, replace coax cable SF41: (60W-P529) (A1-F18AC-740-300, WP023 05)		
(3) Do step n and shutdown, table 2 (WP016 05). ....	-	-



**Table 1. No Power From Any AIM-7 Antenna (Continued)**

Procedure	No	Yes
m. Replace Pantograph Assembly (A1-F18AC-742-300, WP013 00). Do step n and Shutdown, table 2 (WP016 05) .....	-	-
n. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		
(1) 01P08		
(2) 60P-P008A (torque to 38 to 42 inch-pounds, and safety with lockwire MS20995NC20)		
(3) 60P-P008B (torque to 38 to 42 inch-pounds, and safety with lockwire MS20995NC20)		
(4) Door 26		
(5) On aircraft after F/A-18 AFC 253, stow Radar Set AN/APG-65.		
On aircraft after F/A-18 AFC 292, stow Radar Set AN/APG-73. ....	-	-

**Table 2. No Power From Left Wing AIM-7 Antenna**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
1324AS100-1	Swept Frequency Measurement Test Set AN/USM-482
1324AS310	Interconnecting Group ON-303(V)2/USM-482
-	Torque Wrench, 0 to 75 Inch-Pounds
Materials Required	
Specification or Part Number	Nomenclature
MS20995NC20	Lockwire
NOTE	
AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP045 00) may be used as an aid while doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
AIM-7 Left Wing Antenna AS-3354/APG	
AIM-7 Left Wing Radio Frequency Cable 60W-P525	
AIM-7 Left Wing Outboard Radio Frequency Cable 60W-P534	
AIM-7 Transmission Line Coupler CU-2265/APG-65	

Table 2. No Power From Left Wing AIM-7 Antenna (Continued)




Procedure	No	Yes
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
<div style="text-align: center;">  </div> <p>To prevent damage to coax cables, do not bend coax cables tighter than one and a half inch radius.</p>		
(2) Open door 26 (A1-F18AC-LMM-010) and disconnect 60P-P008C from J3 on AIM-7 Transmission Line Coupler CU-2265/APG-65.		
(3) Remove AIM-7 Left Wing Antenna AS-3354/APG (A1-F18AC-740-300, WP021 00).		
(4) Do start up procedure and confidence check (NAVAIR 16-30USM482-1).		
(5) Remove adapters and extension cables from test set and interconnecting group needed for insertion loss hookup no. 4, table 3 (WP016 03).		
(6) Do Insertion Loss Reference, table 1 (WP016 04).		
<div style="text-align: center;">  </div> <p>To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of adapters, attenuators or detectors assembly.</p>		
<div style="text-align: center;"><b>NOTE</b></div> <p>To maintain accuracy in readings, connectors must be kept clean and mated properly.</p>		
(7) Do hookup no. 4, table 3 (WP016 03) (figure 1).		
<div style="text-align: center;"><b>NOTE</b></div> <p>Note frequency where insertion loss limit is exceeded. The frequency is <math>F_o</math> and is used in fault location.</p>		
(8) Do Insertion Loss Measurement, table 2 (WP016 04).		
(9) Does measurement exceed hookup no. 4 maximum allowable loss value (A1-F18AC-740-250/(C), WP016 01)? .....	b	e
b. Do substeps listed below:		
(1) Disconnect adapters, extension cables, RF cable, and detector assembly from unit under test.		
(2) Store adapters for insertion loss, hookup 4 in test set and interconnection group.		
(3) Remove adapters and extension cables from test set and interconnecting group needed for return loss hookup no. 2, table 3 (WP016 03).		

Table 2. No Power From Left Wing AIM-7 Antenna (Continued)

Procedure	No	Yes
(4) Do Return Loss Reference, table 3 (WP016 04).		
<div style="text-align: center;">  </div> <p>To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of adapters, attenuators or detectors assembly.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>To maintain accuracy in readings, connectors must be kept clean and mated properly.</p>		
(5) Do hookup no. 2, table 4 (WP016 03) (figure 2).		
<p style="text-align: center;"><b>NOTE</b></p> <p>When testing antennas, make sure antennas are not within 5 feet of any metal object.</p>		
(6) Do Return Loss Measurement, table 4 (WP016 04).		
(7) Is return loss measurement 14 db or greater? .....	c	d
c. Replace AIM-7 (left) Wing Antenna AS-3354/APG (A1-F18AC-740-300, WP021 00). Do step h and Shutdown, table 2 (WP016 05) .....	-	-
d. Replace AIM-7 Transmission Line Coupler CU-2265/APG-65 (A1-F18AC-740-300, WP023 00). Do step h and Shutdown, table 2 (WP016 05). ....	-	-
e. Do substeps listed below:		
(1) Disconnect and store adapters/extension cables from test set and unit under test.		
(2) Do Fault Location, table 1 (WP016 05) on coax cables from 60P-P008C to 60P-U013. Use figure 1 (WP016 03) for length and connector type.		
(3) Does distance to fault, indicate coax cable SF43A? .....	f	g
f. When distance to fault indicates coax cable SF43B and connector(s) 60P-U013, 60J-U012 or 60P-U012, visually inspect connector(s) for damage and repair if necessary. If connectors are not indicated or damaged, replace coax cable SF43B (A1-F18AC-740-300, WP023 01) (60W-P534). Do step h and Shutdown, table 2 (WP016 05) .....	-	-
g. When distance to fault indicates coax cable SF43A and connector(s) 60P-P008C, 60P-U012 or 60J-U012, visually inspect connector(s) for damage and repair if necessary. If connectors are not included or damaged, replace coax cable SF43A (A1-F18AC-740-300, WP023 01) (60W-P525). Do step h and Shutdown, table 2 WP016 05. ....	-	-

**Table 2. No Power From Left Wing AIM-7 Antenna (Continued)**

Procedure	No	Yes
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) AIM-7 (left) Wing Antenna AS-3354/APG		
(2) 60P-P008 (torque to 38 to 42 inch-pounds, and safety with lockwire MS20995NC20)		
(3) Door 26 . . . . .	-	-


**Table 3. No Power From Left Fuselage AIM-7 Antenna**

Support Equipment Required			
Part Number or Type Designation	Nomenclature		
1324AS100-1	Swept Frequency Measurement Test Set AN/USM-482		
1324AS310	Interconnecting Group ON-303(V)2/USM-482		
-	Torque Wrench, 0 to 75 Inch-Pounds		
Materials Required			
Specification or Part Number	Nomenclature		
MS20995NC20	Lockwire		
NOTE			
AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP045 00) may be used as an aid while doing this procedure.			
Component locations are shown in WP007 00.			
Malfunction is caused by one of the items listed below:			
AIM-7 (Left) Wing Antenna AS-3354/APG			
AIM-7 Left Wing Radio Frequency Cable 60W-P525 (SF43A)			
AIM-7 Left Wing Radio Frequency Cable 60W-P534 (SF43B)			
AIM-7 Transmission Line Coupler CU-2265/APG-65			
Procedure		No	Yes
a. Do substeps listed below:			
(1) Make sure electrical power is off (A1-F18AC-LMM-000).			

Table 3. No Power From Left Fuselage AIM-7 Antenna (Continued)

Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to coax cables, do not bend coax cables tighter than one and a half inch radius.</p> <p>(2) Open door 26 (A1-F18AC-LMM-010) and disconnect 60P-P008E from J5 on Transmission Line Coupler CU-2265/APG-65.</p> <p>(3) Remove AIM-7 (left) Fuselage Antenna AS-3424/APG-65 (A1-F18AC-740-300, WP022 00).</p> <p>(4) Do start up procedure and confidence check (NAVAIR 16-30USM482-1).</p> <p>(5) Remove adapters and extension cables from test set and interconnecting group needed for insertion loss hookup no. 5, table 3 (WP016 03).</p> <p>(6) Do Insertion Loss Reference, table 1 (WP016 04).</p>		
<div>CAUTION</div> <p>To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of adapters, attenuators or detectors assembly.</p> <p><b>NOTE</b></p> <p>To maintain accuracy in readings, connectors must be kept clean and mated properly.</p> <p>(7) Do hookup no. 5, table 3 (WP016 03) (figure 1).</p>		
<p><b>NOTE</b></p> <p>Note frequency where insertion loss limit is exceeded. This frequency is <math>F_o</math>, and is used in fault location.</p>		
(8) Do Insertion Loss Measurement, table 2 (WP016 04).		
(9) Does measurement exceed hookup no. 5 maximum allowable insertion loss value (A1-F18AC-740-250/(C), WP016 01)? .....	b	e
b. Do substeps listed below:		
(1) Disconnect adapters, extension cables, RF cable, and detector assembly from unit under test.		
(2) Store adapters for insertion loss, hookup 5 in test set and interconnecting group.		
(3) Remove adapters and extension cables from test set and interconnecting group needed for return loss hookup no. 3, table 3 (WP016 03).		
(4) Do Return Loss Reference, table 3 (WP016 05).		

Table 3. No Power From Left Fuselage AIM-7 Antenna (Continued)

Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of adapters, attenuators or detectors assembly.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>To maintain accuracy in readings, connectors must be kept clean and mated properly.</p> <p>(5) Do hookup no. 3, table 4 (WP016 03) (figure 2).</p> <p style="text-align: center;"><b>NOTE</b></p> <p>When testing antennas, make sure antennas are not within 5 feet of any metal object.</p>		
(6) Do Return Loss Measurement, table 4 (WP016 04).		
(7) Is return loss measurement 14dB or greater? .....	c	d
c. Replace AIM-7 (left) Fuselage Antenna AS-3424/APG-65 (A1-F18AC-740-300, WP022 00). Do step h and Shutdown, table 2 (WP016 05) .....	-	-
d. Replace AIM-7 Transmission Line Coupler CU-2265/APG-65 (A1-F18AC-740-300, WP023 00). Do step h and Shutdown, table 2 (WP016 05) .....	-	-
e. Do substeps listed below:		
(1) Disconnect and store adapters and extension cable from test set and unit under test.		
(2) Do Fault Location, table 1 (WP016 05) on coax cables from 60P-P008E to 60P-S011. Use figure 1 (WP016 03) for length and connector type .....	f	g
(3) Does distance to fault indicate coax cable SF44A? .....	f	g
f. When distance to fault indicates coax cable SF44B and connector(s) 60P-S011, 60P-S027 or 60J-S027, visually inspect connector(s) for damage and repair if necessary. If connectors are not indicated or damaged, replace coax cable SF44B (A1-F18AC-740-300, WP023 02) (60W-P531). Do step h and Shutdown, table 2 (WP016 05) .....	-	-
g. When distance to fault indicates coax cable SF44A and connector(s) 60P-P008E, 60J-S027 or 60P-S027, visually inspect connector(s) for damage and repair if necessary. If connectors are not included or damaged, replace coax cable SF44A (A1-F18AC-740-300, WP023 02) (60W-P526). Do step h and Shutdown, table 2 (WP016 05) .....	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) AIM-7 (left) Wing Antenna AS-3424/APG-65		
(2) 60P-P008E (torque 38 to 42 inch-pounds, and safety with lockwire MS20995NC20)		
(3) Door 26 .....	-	-

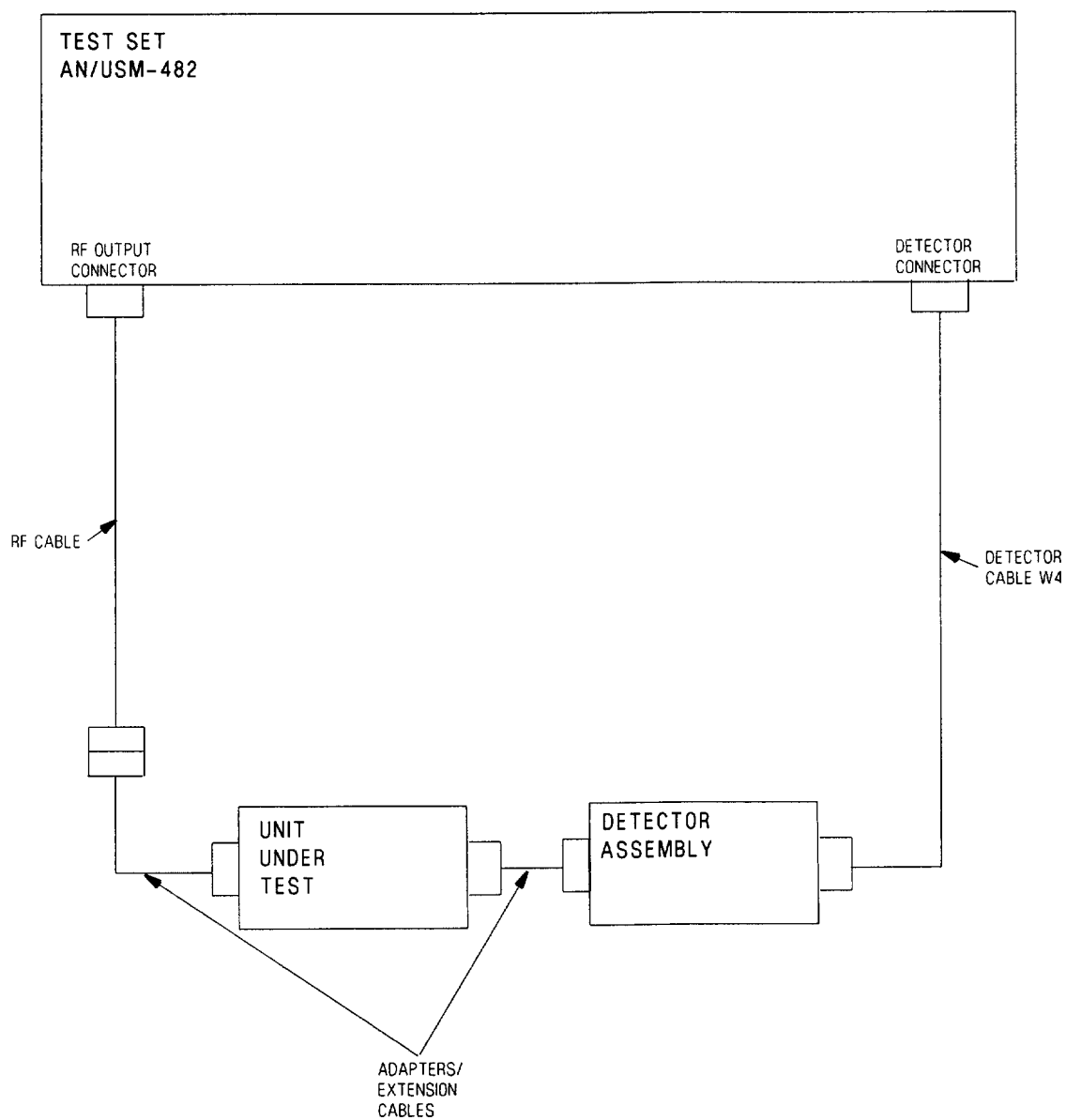
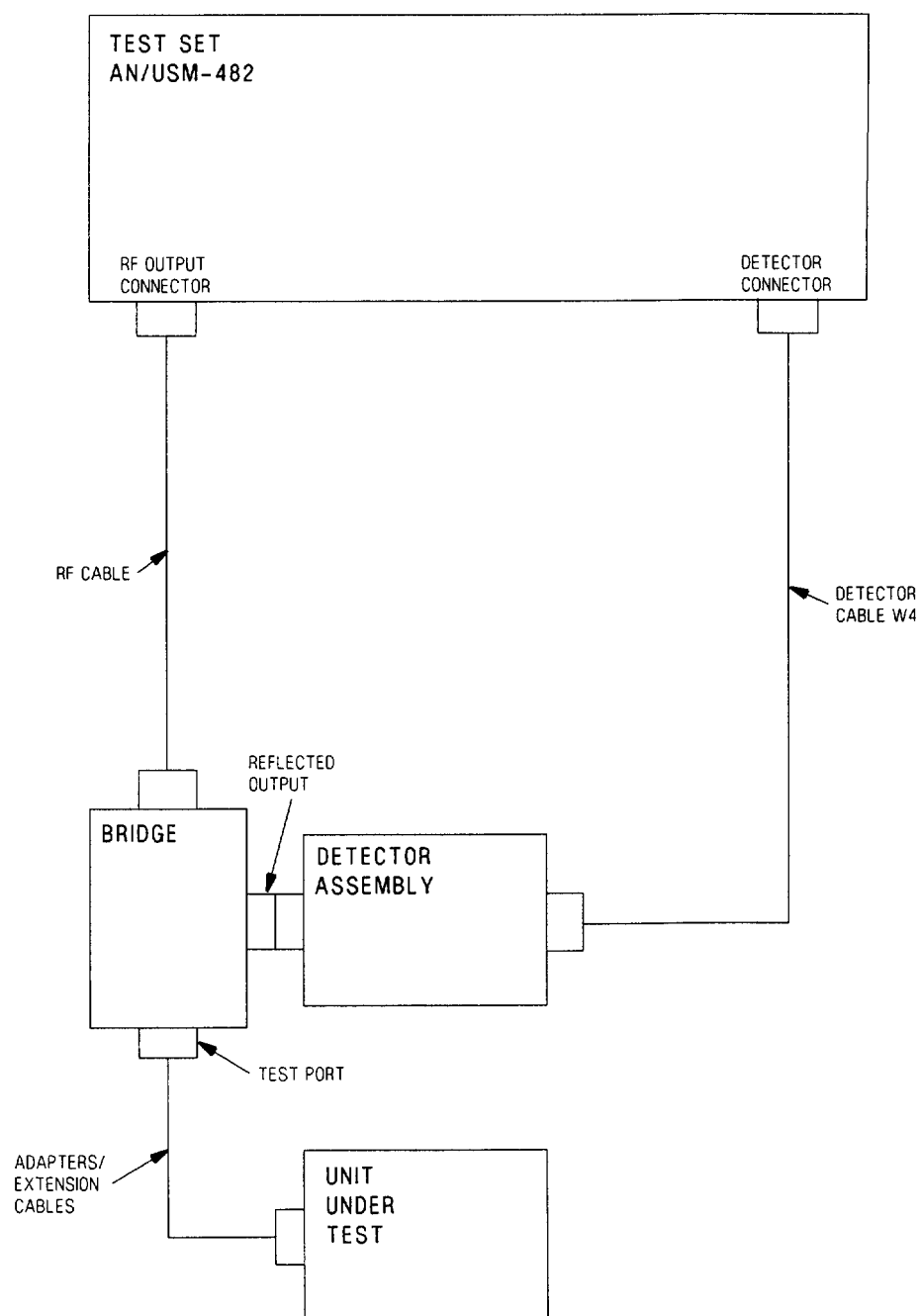


Figure 1. Test Equipment Hookup - Insertion Loss

**Figure 2. Test Equipment Hookup - Return Loss**



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 ILLUMINATION ANTENNA TEST, PART 2

## AIM-7 ILLUMINATION ANTENNA SYSTEM

EFFECTIVITY: F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Swept Frequency Measurement Test Set AN/USM-482 .....	NAVAIR 16-30USM482-1
Weapon Control Systems .....	A1-F18AC-740-200
AIM-7 Line/Antenna Fault Location .....	WP016 05
AIM-7 Line/Antenna Return Loss and Insertion Loss .....	WP016 01
Weapon Control System .....	A1-F18AC-740-250/(C)
AIM-7 Line/Antenna Return Loss and Insertion Loss .....	WP016 01

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. No Power From Right Wing AIM-7 Antenna

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
1324AS100-1	Swept Frequency Measurement Test Set AN/USM-482	
1324AS310	Interconnecting Group ON-303(V)2/USM-482	
-	Torque Wrench, 0 to 75 Inch-Pounds	
Materials Required		
Specification or Type Designation	Nomenclature	
MS20995NC20	Lockwire	
NOTE		
AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP045 00) may be used as an aid while doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
AIM-7 Right Wing Antenna AS-3353/APG		
AIM-7 Right Wing Radio Frequency Cable 60W-P528		
AIM-7 Right Wing Outboard Radio Frequency Cable 60W-P535		
AIM-7 Transmission Line Coupler CU-2265/APG-65		
Procedure	No	Yes
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
<div>CAUTION</div>		
To prevent damage to coax cables, do not bend coax cables tighter than one and a half inch radius.		
(2) Open door 26 (A1-F18AC-LMM-010), and disconnect 60P-P008B from J2 on AIM-7 Transmission Line Coupler CU-2265/APG-65.		
(3) Reomve AIM-7 Right Wing Antenna AS-3353/APG (A1-F18AC-740-300, WP021 00).		
(4) Do start up procedure and confidence check (NAVAIR 16-30USM482-1).		
(5) Remove adapters and extension cables from test set and interconnecting group needed for insertion loss hookup no. 3, table 3.		
(6) Do Insertion Loss Reference, table 1 (WP016 04).		

Table 1. No Power From Right Wing AIM-7 Antenna (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of adapters, attenuators or detectors assembly.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>To maintain accuracy in readings, connectors must be kept clean and mated properly.</p> <p>(7) Do hookup no. 3, table 3 (this WP) using figure 1 (WP016 02).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>Note frequency where insertion loss limit is exceeded. The frequency is <math>F_o</math> and is used in fault location.</p>		
(8) Do Insertion Loss Measurement, table 2 (WP016 04).		
(9) Does measurement exceed hookup no. 2 maximum allowable insertion loss value (A1-F18AC-740-250/(C), WP016 01)? .....	b	e
b. Do substeps listed below:		
(1) Disconnect adapters, extension cables, RF cable, and detector assembly from unit under test.		
(2) Store adapters for insertion loss, hookup 3, in test set and interconnecting group.		
(3) Remove adapters and extension cables from test set and interconnecting group needed for return loss hookup no. 1, table 3.		
(4) Do Return Loss Reference, table 3 (WP016 04).		
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of adapters, attenuators or detectors assembly.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>To maintain accuracy in readings, connectors must be kept clean and mated properly.</p>		
(5) Do hookup no. 1, table 4, this WP (figure 2, WP016 02).		
<p style="text-align: center;"><b>NOTE</b></p> <p>When testing antennas, make sure antennas are not within 5 feet of any metal object.</p>		
(6) Do Return Loss Measurement, table 4 (WP016 04).		
(7) Is return loss measurement 14 dB or greater? .....	c	d
c. Replace AIM-7 (right) Wing Antenna AS-3353/APG (A1-F18AC-740-300, WP021 00). Do step n and Shutdown, table 2 (WP016 05).	-	-

Table 1. No Power From Right Wing AIM-7 Antenna (Continued)

Procedure	No	Yes
d. Replace AIM-7 Transmission Line Coupler CU-2265/APG-65 (A1-F18AC-740-300, WP023 00). Do step n and Shutdown, table 2 (WP016 05). . . . .	-	-
e. Do substeps listed below:		
(1) Disconnect and store adapters and extension cables from test set and unit under test.		
(2) Do Fault Location, table 3 (WP016 05) on coax cables from 60P-P008B to 60P-V016. Use figure 1 (this WP) for length and connector type.		
(3) Does distance to fault indicate coax cable SF46A . . . . .	f	g
f. When distance to fault indicates coax cable SF46B and connector(s) 60P-V016, 60J-V015, or 60P-V015, visually inspect connector(s) for damage and repair if necessary. If connectors are not indicated or damaged, replace coax cable SF46B (A1-F18AC-740-300, WP023 04) (60W-P535). Do step h and Shutdown, table 2 (WP016 05). . . . .	-	-
g. When distance to fault indicates coax cable SF46A and connector(s) 60P-P008B, 60P-V015, or 60J-V015, visually inspect connector(s) for damage and repair if necessary. If connectors are not indicated or damaged, replace coax cable SF46A (A1-F18AC-740-300, WP023 04) (60W-P528). Do step h and Shutdown, table 2 (WP016 05). . . . .	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) AIM-7 (right) Wing Antenna AS-3353/APG		
(2) 60P-P008 (torque to 38 to 42 inch-pounds, and safety with lockwire MS20995NC20)		
(3) Door 26 . . . . .	-	-

Table 2. No Power From Right Fuselage AIM-7 Antenna

Support Equipment Required	
Part Number or Type Designation	Nomenclature
1324AS100-1	Swept Frequency Measurement Test Set AN/USM-482
1324AS310	Interconnecting Group ON-303(V)2/USM-482
-	Torque Wrench, 0 to 75 Inch-Pounds
Materials Required	
Specification or Part Number	Nomenclature
MS20995NC20	Lockwire

**Table 2. No Power From Right Fuselage AIM-7 Antenna (Continued)**

<b>NOTE</b>		
<p>AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP045 00) may be used as an aid while doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>AIM-7 Right Fuselage Antenna AS-3423/APG-65  AIM-7 Right Fuselage Radio Frequency Cable 60W-P532  AIM-7 Right Fuselage Radio Frequency Cable 60W-P533  AIM-7 Transmission Line Coupler CU-2265/APG-65</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<p>a. Do substeps listed below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to coax cables, do not bend coax cables tighter than one and a half inch radius.</p> <p>(2) Open door 26 (A1-F18AC-LMM-010) and disconnect 60P-P008D from J4 on Transmission Line Coupler CU-2265/APG-65.</p> <p>(3) Remove AIM-7 (right) Fuselage Antenna AS-3423/APG-65 (A1-F18AC-740-300, WP022 00).</p> <p>(4) Do start up procedure and confidence check (NAVAIR 16-30USM482-1).</p> <p>(5) Remove adapters and extension cables from test set and interconnecting group needed for insertion loss hookup no. 6, table 3 (this WP).</p> <p>(6) Do Insertion Loss Reference, table 1 (WP016 04).</p> <p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of adapters, attenuators or detectors assembly.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>To maintain accuracy in readings, connectors must be kept clean and mated properly.</p> <p>(7) Do hookup no. 6, table 3 (this WP) using figure 1 (WP016 02).</p>		

Table 2. No Power From Right Fuselage AIM-7 Antenna (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>Note frequency where insertion loss limit is exceeded. The frequency is <math>F_o</math> and is used in fault location.</p>		
(8) Do Insertion Loss Measurement, table 2 (WP016 04).		
(9) Does measurement exceed hookup no. 4 maximum allowable loss value (A1-F18AC-740-250/(C), WP016 01)? .....	b	e
b. Do substeps listed below:		
(1) Disconnect adapters, extension cables, RF cable, and detector assembly from unit under test.		
(2) Store adapters for insertion loss, hookup 4 in test set and interconnection group.		
(3) Remove adapters and extension cables from test set and interconnecting group needed for return loss hookup no. 4, table 3.		
(4) Do Return Loss Reference, table 3 (WP016 04).		
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of adapters, attenuators or detectors assembly.</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>To maintain accuracy in readings, connectors must be kept clean and mated properly.</p>		
(5) Do hookup no. 4, table 4 (this WP) using figure 2 (WP016 02).		
<p style="text-align: center;"><b>NOTE</b></p> <p>When testing antennas, make sure antennas are not within 5 feet of any metal object.</p>		
(6) Do Return Loss Measurement, table 4 (WP016 04).		
(7) Is return loss measurement 14 db or greater? .....	c	d
c. Replace AIM-7 (right) Fuselage Antenna AS-3423/APG-65 (A1-F18AC-740-300, WP022 00). Do step h and Shutdown, table 2 (WP016 05) .....	-	-
d. Replace AIM-7 Transmission Line Coupler CU-2265/APG-65 (A1-F18AC-740-300, WP023 00). Do step h and Shutdown, table 2 (WP016 05). .....	-	-
e. Do substeps listed below:		

**Table 2. No Power From Right Fuselage AIM-7 Antenna (Continued)**

Procedure	No	Yes
(1) Disconnect and store adapters/extension cables from test set and unit under test.		
(2) Do Fault Location, table 1 (WP016 05) on coax cables from 60P-P008D to 60P-T014. Use figure 1 (this WP) for length and connector type.		
(3) Does distance to fault, indicate coax cable SF47A? . . . . .	f	g
f. When distance to fault indicates coax cable SF47B and connector(s) 60P-T014, 60P-T029 or 60J-T029, visually inspect connector(s) for damage and repair if necessary. If connectors are not indicated or damaged, replace coax cable SF47B (A1-F18AC-740-300, WP023 03) (60W-P527). Do step h and Shutdown, table 2 (WP016 05) . . . . .	-	-
g. When distance to fault indicates coax cable SF47A and connector(s) 60P-P008D, 60J-T029 or 60P-T029, visually inspect connector(s) for damage and repair if necessary. If connectors are not included or damaged, replace coax cable SF47A (A1-F18AC-740-300, WP023 03) (60W-P527). Do step h and Shutdown, table 2 (WP016 05) . . . . .	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) AIM-7 (right) Wing Antenna AS-3423/APG-65		
(2) 60P-P008D (torque to 38 to 42 inch-pounds, and safety with lockwire MS20995NC20)		
(3) Door 26 . . . . .	-	-

**Table 3. Test Hookup of Unit Under Test for Insertion Loss**

Hookup No.	USM-482 RF Cable	USM-482 Detector Assembly
1	01P08 (N Male)	J1 on AIM-7 Transmission Line Coupler (TNC Female)
2	01P08 (N Male)	60P-P008A (TNC Male)
3	60P-P008B (TNC Male)	60P-V016 (N Male)
4	60P-P008C (TNC Male)	60P-U013 (N Male)
5	60P-P008E (TNC Male)	60P-S011 (TNC Male)
6	60P-P008D (TNC Male)	60P-T014 (TNC Male)

**Table 4. Test Hookup of Unit Under Test for Return Loss**

Hookup No.	USM-482 Detector Assembly
1	60E-V016 (N Female)
2	60E-U013 (N Female)
3	60E-S011 (TNC Female)
4	60E-T014 (TNC Female)

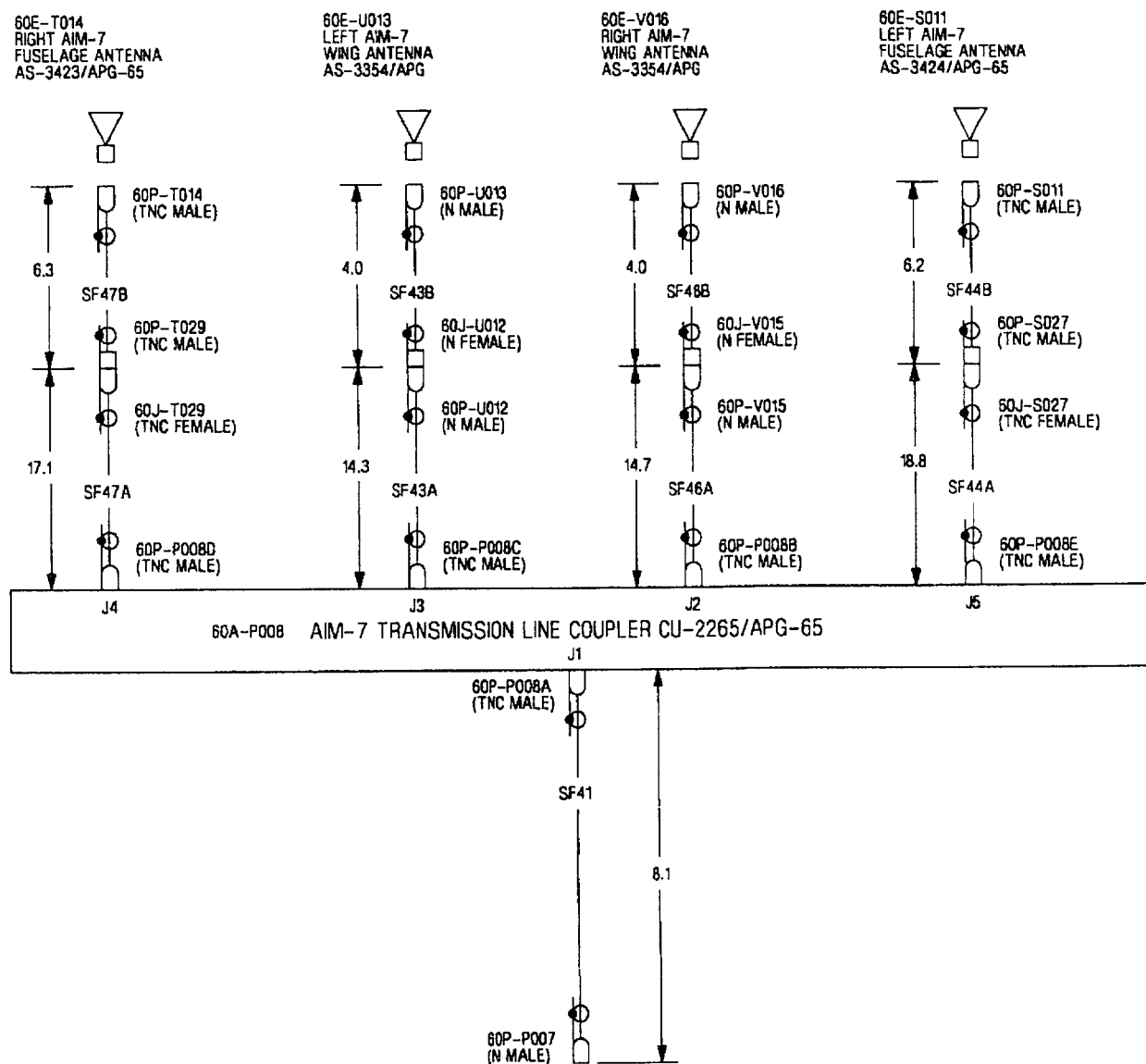
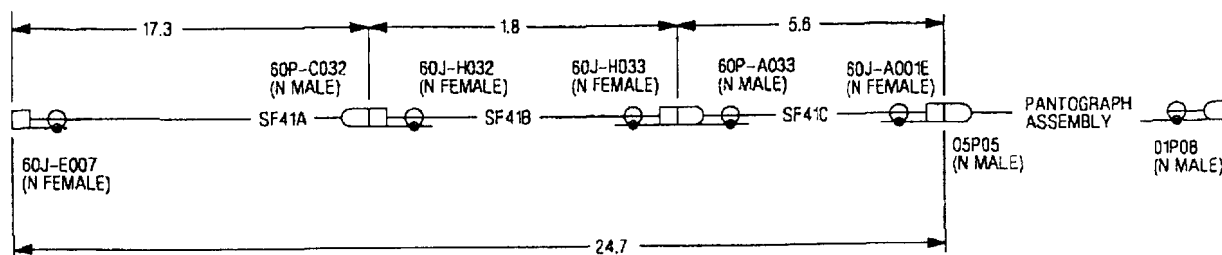


Figure 1. AIM-7 Illumination Antenna System (Sheet 1)





### LEGEND

1. ALL COAX CABLE LENGTHS ARE IN FEET.
2. COAX CABLE SF41 AND SF41A ARE SHOWN DISCONNECTED FOR DIMENSIONING PURPOSE ONLY.

Figure 1. AIM-7 Illumination Antenna System (Sheet 2)



**ORGANIZATIONAL MAINTENANCE****TESTING AND TROUBLESHOOTING****TROUBLESHOOTING - AIM-7 LINE/ANTENNA RETURN LOSS AND INSERTION LOSS****AIM-7 ILLUMINATION ANTENNA SYSTEM**

This WP is incomplete without WP016 01 contained in Confidential Supplement A1-F18AC-740-250/(C).

**EFFECTIVITY: F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

**Reference Material**

Swept Frequency Measurement Test Set AN/USM-482 . . . . . NAVAIR 16-30USM482-1  
 Weapon Control Systems . . . . . A1-F18AC-740-250/(C)  
 AIM-7 Line/Antenna Return Loss and Insertion Loss . . . . . WP016 05

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**Record of Applicable Technical Directives**

<b>Type/ Number</b>	<b>Date</b>	<b>Title and ECP No.</b>	<b>Date Incorp.</b>	<b>Remarks</b>
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Insertion Loss Reference


System Required Components	
None	
Related Required Components	
None	
Support Equipment Required	
Part Number or Type Designation	Nomenclature
1324AS100-1	Swept Frequency Measurement Test Set AN/USM-482
1324AS310	Interconnecting Group ON-303(V)2/USM-482
Materials Required	
None	
NOTE	
Component locations are shown in WP007 00.	
For the remainder of this procedure, test set refers to Swept Frequency Measurement Test Set AN/USM-482.	
Start up procedure and confidence check (NAVAIR 16-30USM482-1) must be performed before doing this procedure.	
Procedure	
a. Press IL on test set KEYBOARD.	
<div style="text-align: center;">  </div>	
To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of adapters, attenuators or detectors assembly.	
NOTE	
To maintain accuracy in readings, connectors must be kept clean and mated properly.	
b. Connect adapters and extension cable between RF cable and detector assembly (figure 2).	
NOTE	
Random noise spikes that appear and disappear after successive IL sweeps may be ignored. If noise spikes prevent a legible reading relocate the test set or connector test set to a different power source.	
c. Press ENTR on KEYBOARD of test set.	
d. Reference sweep has a gradual curving line with no large spikes, dropouts, or long flat spots inside the passband (figure 1).	

Table 2. Insertion Loss Measurement

System Required Components	
None	
Related Required Components	
None	
Support Equipment Required	
Part Number or Type Designation	Nomenclature
1324AS100-1	Swept Frequency Measurement Test Set AN/USM-482
1324AS310	Interconnecting Group ON-303(V)2/USM-482
Materials Required	
None	
NOTE	
Component locations are shown in WP007 00.	
For the remainder of this procedure, test set refers to Swept Frequency Measurement Test Set AN/USM-482.	
Start up procedure and confidence check (NAVAIR 16-30USM482-1) must be performed before doing this procedure.	
Procedure	
a. Press ENTER on test set KEYBOARD.	
NOTE	
Random noise spikes that appear and disappear after successive IL sweeps may be ignored. If noise spikes prevent a legible reading relocate the test set or connector test set to a different power source.	
b. Adjust BRIGHTNESS on test set for best display.	
c. Set OFS and SENS on KEYBOARD of test set to view trace in center area of DISPLAY.	
d. Sweep has a gradual curving line with no large spikes, dropouts, or long flat spots inside the passband.	
e. Press F1 on KEYBOARD and enter lower end frequency (A1-F18AC-740-250/(C), WP016 01) on KEYBOARD numeric pad.	
f. Press F2 on KEYBOARD and enter upper end frequency (A1-F18AC-740-250/(C), WP016 01) on KEYBOARD numeric pad.	
g. Compare trace to reference and record the difference.	

Table 3. Return Loss Reference


<b>System Required Components</b>	
None	
<b>Related Required Components</b>	
None	
<b>Support Equipment Required</b>	
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>
1324AS100-1	Swept Frequency Measurement Test Set AN/USM-482
1324AS310	Interconnecting Group ON-303(V)2/USM-482
<b>Materials Required</b>	
None	
<b>NOTE</b>	
Component locations are shown in WP007 00.	
For the remainder of this procedure, test set refers to Swept Frequency Measurement Test Set AN/USM-482.	
Start up procedure and confidence check (NAVAIR 16-30USM482-1) must be performed before doing this procedure.	
<b>Procedure</b>	
a. Press RL on test set KEYBOARD.	
<div style="text-align: center;">  </div> <p>To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of adapters, attenuators or detectors assembly.</p>	
<b>NOTE</b>	
To maintain accuracy in readings, connectors must be kept clean and mated properly.	
b. Connect detector assembly to REFLECTED OUTPUT of bridge (figure 3).	
c. Connect short adapter to TEST PORT of bridge.	
d. Connect RF cable to bridge.	
e. Press ENTR on KEYBOARD.	
f. Reference sweep has a gradual curving line with no large spikes, dropouts, or long flat spots inside the passband (figure 1).	
g. Remove short adapter from TEST PORT of bridge and store.	
h. Press ENTR on KEYBOARD of test set.	
i. Reference sweep has a gradual curving line with no large spikes, dropouts, or long flat spots inside the passband (figure 1).	

Table 4. Return Loss Measurement

System Required Components	
None	
Related Required Components	
None	
Support Equipment Required	
Part Number or Type Designation	Nomenclature
1324AS100-1	Swept Frequency Measurement Test Set AN/USM-482
1324AS310	Interconnecting Group ON-303(V)2/USM-482
Materials Required	
None	
NOTE	
Component locations are shown in WP007 00.	
For the remainder of this procedure, test set refers to Swept Frequency Measurement Test Set AN/USM-482.	
Start up procedure and confidence check (NAVAIR 16-30USM482-1) must be performed before doing this procedure.	
Procedure	
<ol style="list-style-type: none"><li>Press ENTER on KEYBOARD of test set.</li><li>Adjust brightness on test set for best display.</li><li>Set OFS and SENS on KEYBOARD of test set to view trace in center area of DISPLAY.</li><li>DISPLAY on test set shows a flat or standing wave type ripple trace.</li><li>Press F1 on KEYBOARD and enter lower end frequency (A1-F18AC-740-250/(C), WP016 01) on KEYBOARD numeric pad.</li><li>Press F2 on KEYBOARD and enter upper end frequency (A1-F18AC-740-250/(C), WP016 01) on KEYBOARD numeric pad.</li><li>Compare trace to reference and record the difference.</li></ol>	

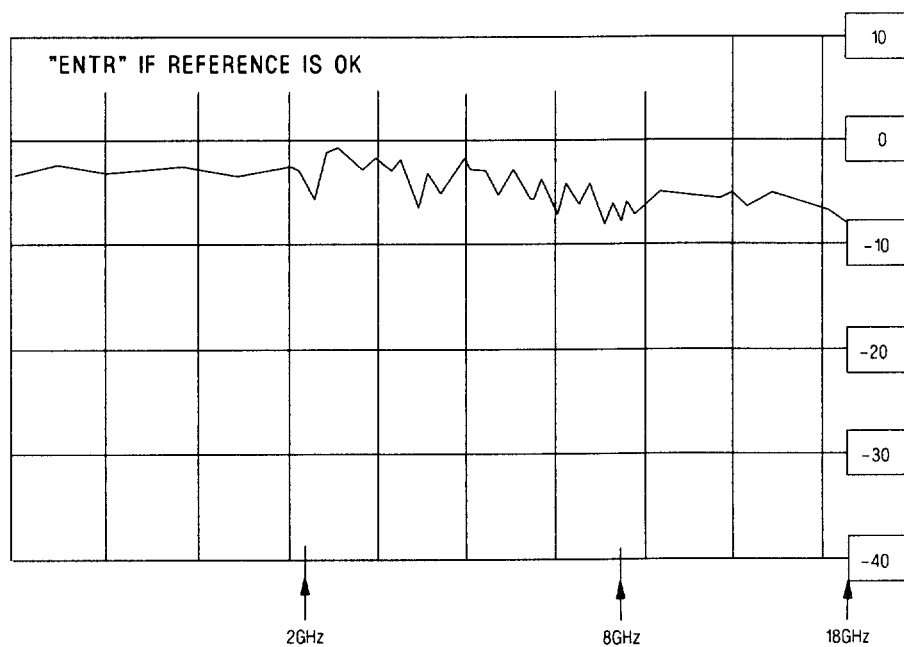


Figure 1. Typical Reference Sweep Display



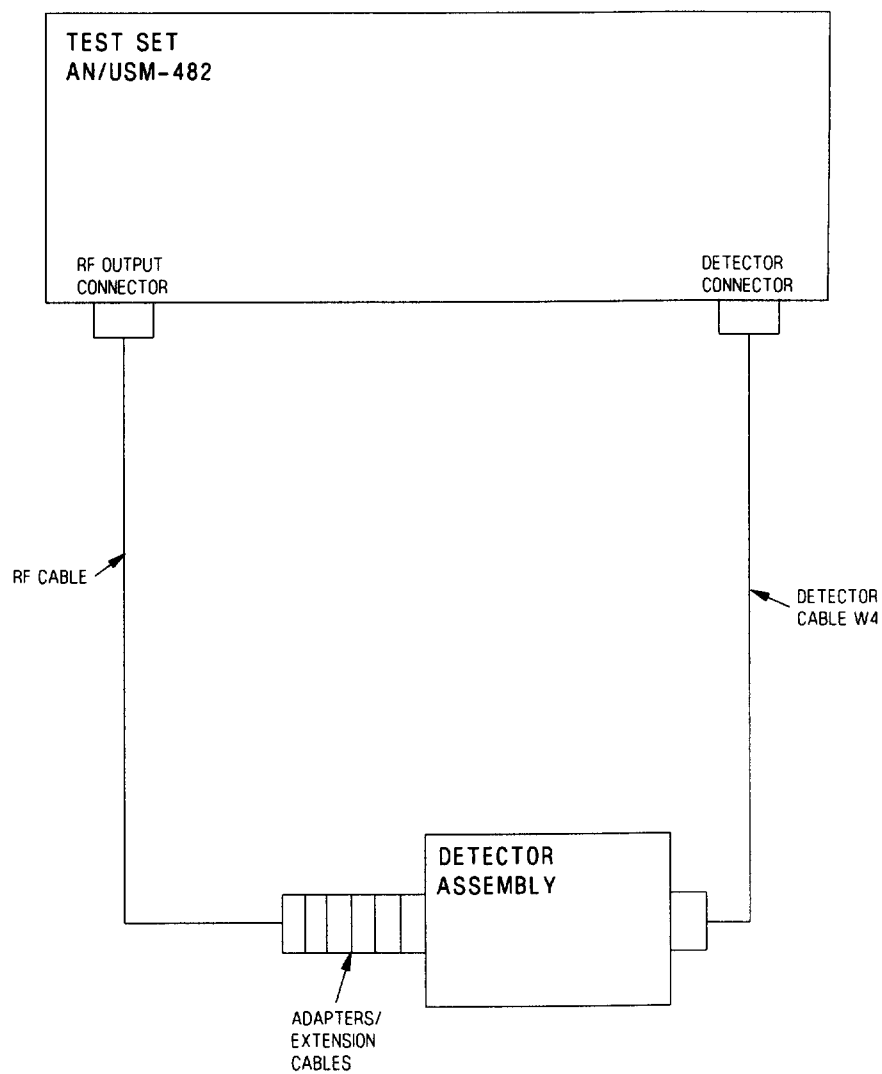


Figure 2. Insertion Loss Reference Hookup

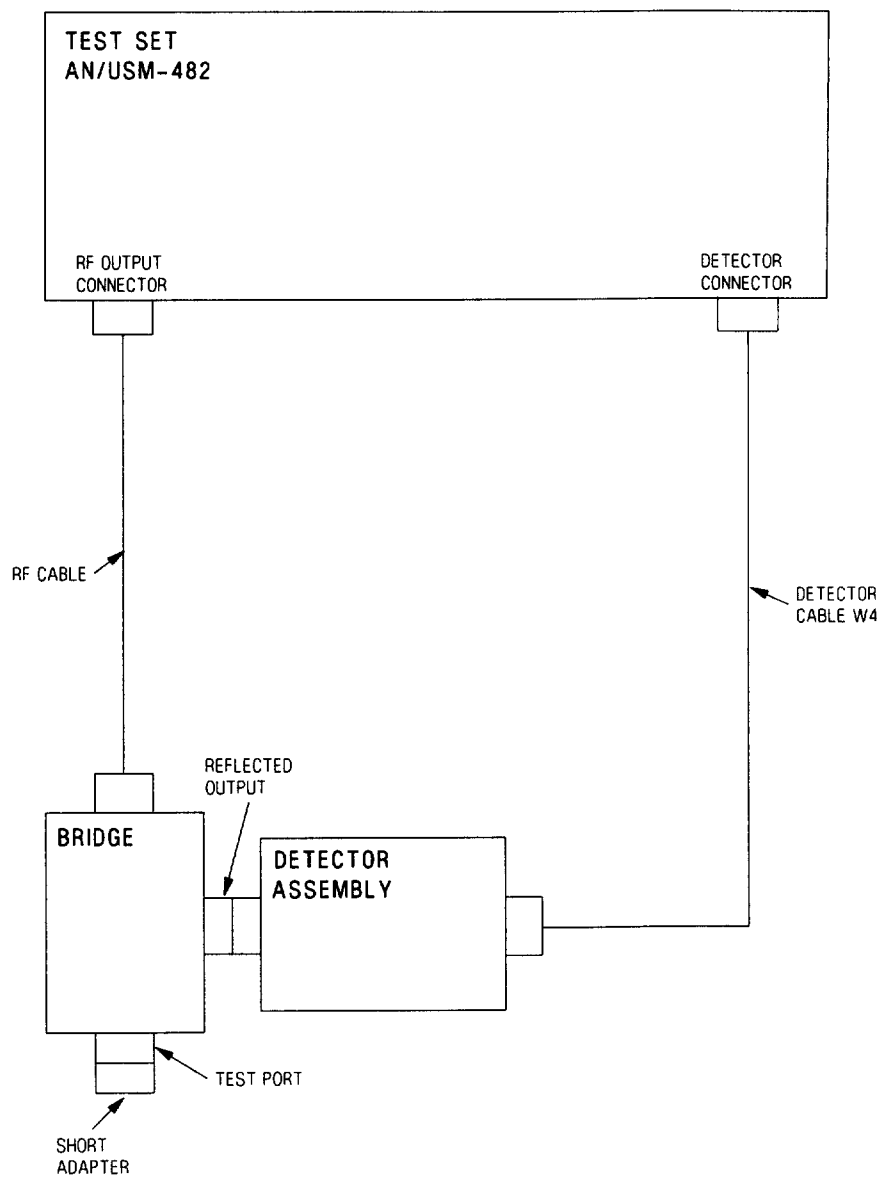


Figure 3. Return Loss Reference Hookup

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 LINE/ANTENNA FAULT LOCATION

## AIM-7 ILLUMINATION ANTENNA SYSTEM

EFFECTIVITY: F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292

## Reference Material

Swept Frequency Measurement Test Set AN/USM-482 ..... NAVAIR 16-30USM482-1

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Fault Location


System Required Components	
None	
Related Required Components	
None	
Support Equipment Required	
Part Number or Type Designation	Nomenclature
1324AS100-1	Swept Frequency Measurement Test Set AN/USM-482
1324AS310	Interconnecting Group ON-303(V)2/USM-482
Materials Required	
None	
NOTE	
Component locations are shown in WP007 00.	
For the remainder of this procedure, test set refers to Swept Frequency Measurement Test Set AN/USM-482.	
Start up procedure and confidence check (NAVAIR 16-30USM482-1) and insertion loss procedures, tables 1 and 2 (WP042 00) must be performed before doing this procedure.	
Procedure	
a. Press MENU on KEYBOARD of test set. b. Press DFT on KEYBOARD of test set.	
<div style="text-align: center;">  </div>	
To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of adapters, attenuators or detectors assembly.	
c. Connector detector assembly and termination to output ports of power divider and connect RF cable to input port of power divider (figure 1). d. Press ENTR on KEYBOARD of test set. e. On test set DISPLAY, check sweep for a gradual curving line, no large spikes, dropouts, or long, flat spots. f. Remove termination from power divider.	

Table 1. Fault Location (Continued)



Procedure
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of adapters, attenuators, power divider, or detector assembly.</p> <ul style="list-style-type: none"> <li>g. Connect coaxial extension cable (81 feet maximum) to output port of power divider (figure 1).</li> <li>h. Connect direct short adapter to extension cable.</li> <li>i. Press NEXT on KEYBOARD of test set.</li> <li>j. Press ENTR on KEYBOARD of test set.</li> </ul> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>All entries of cable length will be in feet. Example: an extension cable of 2 feet, 10 inches long is entered into test set as 2.83.</p> </div> <ul style="list-style-type: none"> <li>k. Using numeric pad of KEYBOARD of test set to enter length of extension cable.</li> <li>l. Make sure F1 and F2 entries from table 2 (WP016 04) are correct.</li> <li>m. Press ENTR on KEYBOARD of test set.</li> <li>n. Remove and store direct short adapter from extension cable.</li> </ul> <div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to connectors, mate connectors by inserting straight into mating connector and rotate outer ring only hand tight. Do not rotate bodies of cables.</p> <ul style="list-style-type: none"> <li>o. Connect extension cable to transmission line to be tested (figure 1).</li> <li>p. Press ENTR on KEYBOARD of test set.</li> </ul> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>All entries of cable length will be in feet. Example: a transmission line of 2 feet, 10 inches long is entered into test set as 2.83.</p> </div> <ul style="list-style-type: none"> <li>q. Enter the length of the transmission line to be tested in feet using the numeric pad of the test set KEYBOARD. Length of transmission lines can be found on figure 1 (WP016 03).</li> <li>r. Enter 31 for average line attenuation (db/100 feet) of transmission line to be tested using the numeric pad of the test set KEY BOARD.</li> <li>s. Enter 80.0 for Vp percentage of transmission line to be tested using the numeric pad of the test set KEYBOARD.</li> <li>t. Press E on KEYBOARD of test set.</li> <li>u. Select sample size of 512 option on test set.</li> <li>v. Select display test results option on test set.</li> <li>w. Select RUN DTF on test set.</li> </ul>

Table 1. Fault Location (Continued)

Procedure				
<p style="text-align: center;"><b>NOTE</b></p> <p>Priority 1 faults must be repaired first and system retested after repair. A priority 4 indicates an almost perfect cable and does not require repair.</p> <p>If distance figure is in question as a valid fault, connect DTF assembly to opposite end of transmission line and retest (step w). If fault is at the same location then fault is valid.</p>				
<p>x. Test set DISPLAY shows test results in tabular form indicating distance (DIST) in feet to fault, accuracy (ACC) in feet of distance to fault, percentage (PCT) of magnitude of fault, and priority (PRI) of fault.</p>				
	DIST (FT)	ACC (FT)	PCT	PRI
	XXX.XX	X.XX	XXX.	1
	XXX.XX	X.XX	XXX.	2
	XXX.XX	X.XX	XXX	3
	XXX.XX	X.XX	XXX.	4

Table 2. Shutdown

System Required Components	
None	
Related Required Components	
None	
Support Equipment Required	
Part Number or Type Designation	Nomenclature
1324AS100-1	Swept Frequency Measurement Test Set AN/USM-482
1324AS310	Interconnecting Group ON-303(V)2/USM-482
Materials Required	
None	
Procedure	
<p>a. On test set, set POWER switch/circuit breaker to OFF.</p> <p>b. Disconnect all rf hookup, power cables and store.</p>	

Table 2. Shutdown

Procedure
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Make sure all cable connectors and accessories are capped.</p> <ul style="list-style-type: none"><li>c. Store accessories in test set and interconnecting group.</li><li>d. Cap POWER and DETECTOR receptacles on test set.</li><li>e. Close covers of test set and interconnecting group.</li></ul>

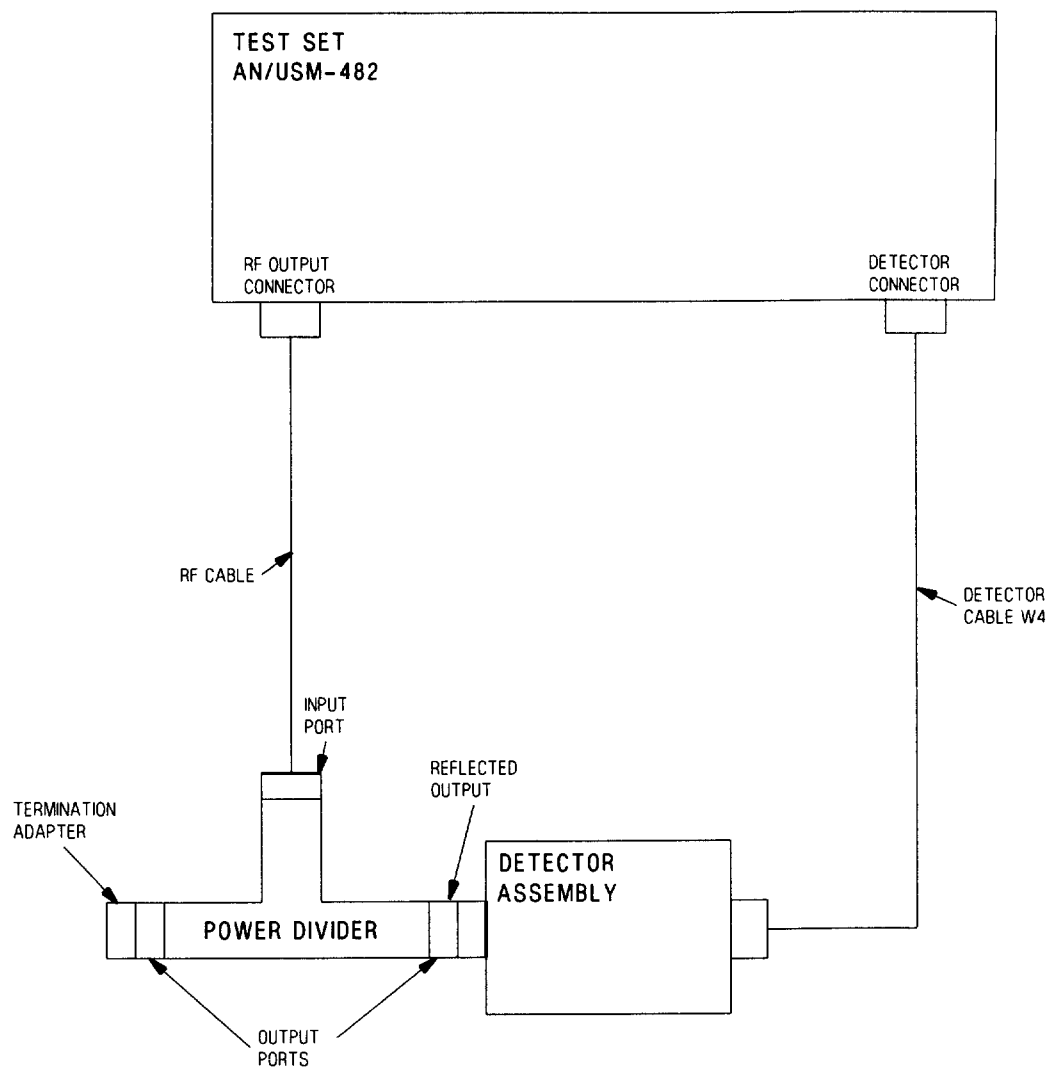


Figure 1. Fault Location (Sheet 1)



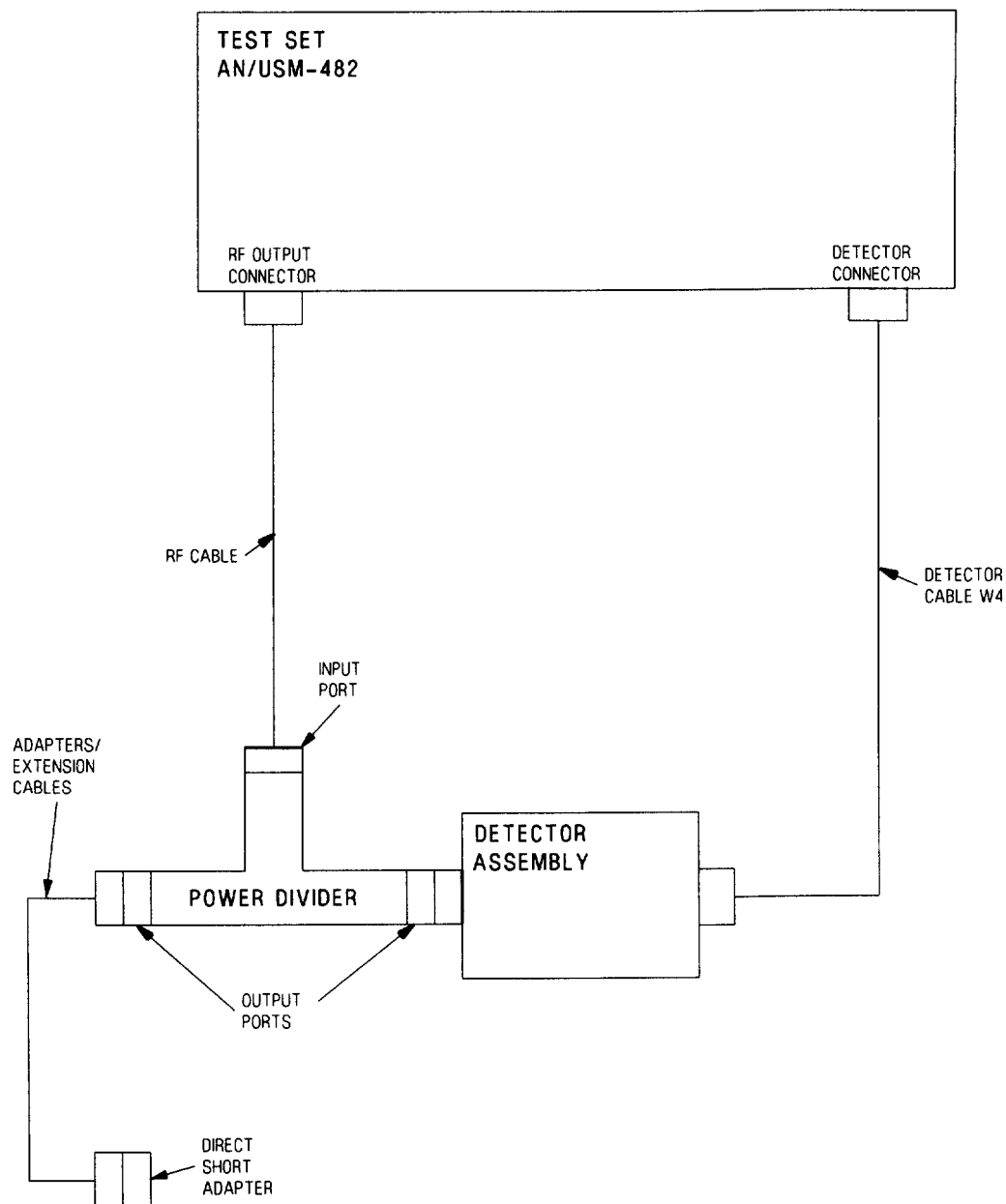


Figure 1. Fault Location (Sheet 2)

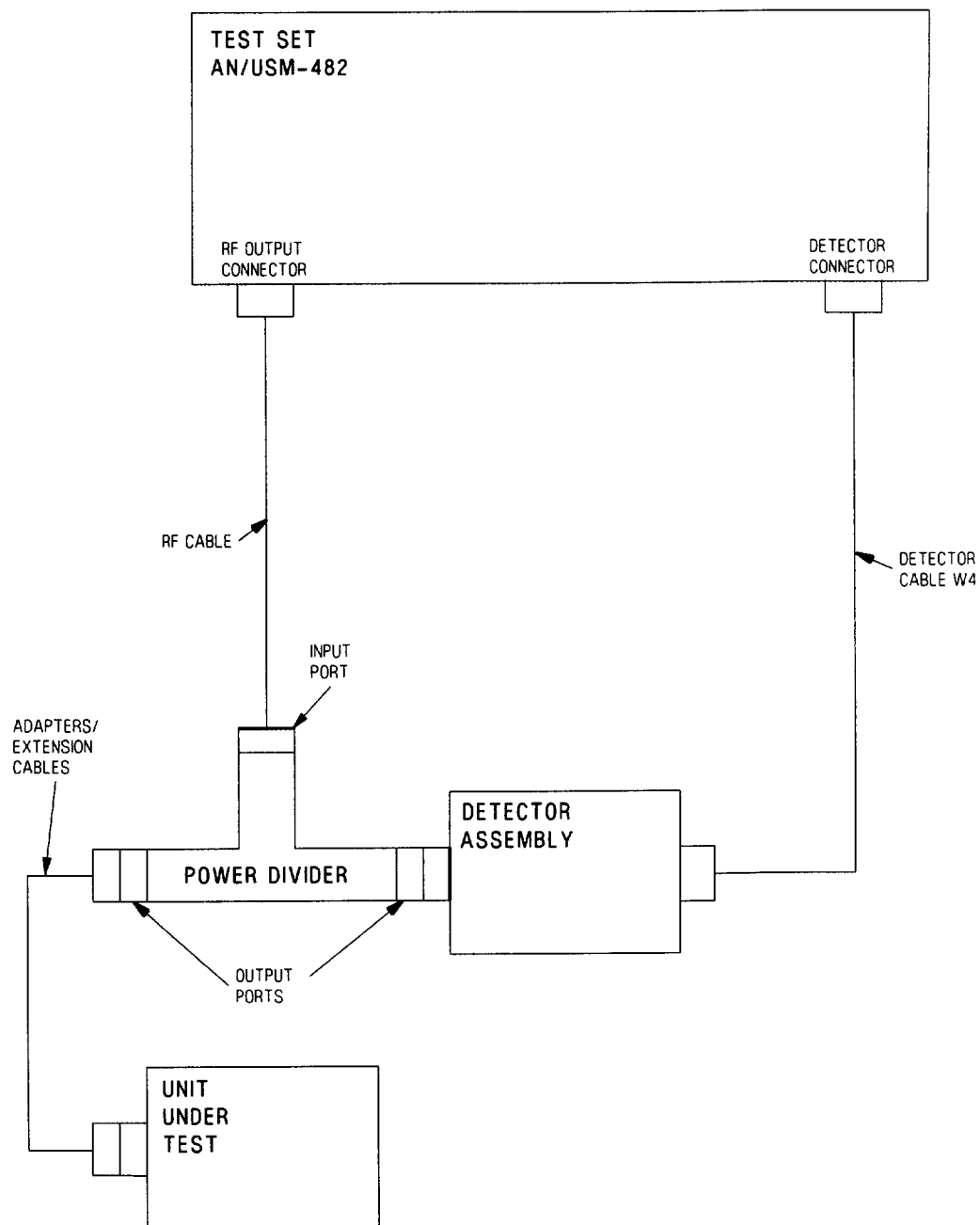


Figure 1. Fault Location (Sheet 3)

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**ORGANIZATIONAL MAINTENANCE**

**TESTING AND TROUBLESHOOTING**

**LOCATOR**

**SUSPENSION AND RELEASE MECHANISMS**

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1. The data in this WP has been moved to  
A1-F18AC-740-200, WP007 00.



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## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - AIRCRAFT BOMB EJECTOR RACK BRU-32( ) EMERGENCY JETTISON TEST

## SUSPENSION AND RELEASE MECHANISMS

---

Title	WP Number
Testing - Aircraft Bomb Ejector Rack BRU-32( ) Emergency Jettison Test - Using WOW Wedge .....	018 01
Testing - Aircraft Bomb Ejector Rack BRU-32( ) Emergency Jettison Test - Using LDG GEAR Control Handle .....	018 02



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

TESTING - AIRCRAFT BOMB EJECTOR RACK BRU-32( ) EMERGENCY JETTISON TEST -  
USING WOW WEDGE

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Weapon Control Systems .....	A1-F18AC-740-200
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00
Locally Manufactured Test Equipment. ....	WP010 15

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AAC 778	25 Oct 84	F/A-18A and F/A-18B Weapons Control System; Aircraft Bomb Ejector Rack BRU-32/A, Modification of (ECP MDA-F/A-18A-00129)	15 Jun 84	-
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Emergency Jettison Test

Procedure	Normal Indication	Remedy for Abnormal Indication														
<div>System Required Components</div> <div>All system components installed.</div> <div>Related Systems Required</div> <div>Electrical System</div> <div>Support Equipment Required</div> <table><thead><tr><th>Part Number or Type Designation</th><th>Nomenclature</th></tr></thead><tbody><tr><td>AN/AWM-54</td><td>Aircraft Firing Circuit Test Set</td></tr><tr><td>74D750020-1001</td><td>Test - Breech Adapter</td></tr><tr><td>-</td><td>Weight On Wheels (WOW) Wedge (Locally Manufactured)</td></tr></tbody></table> <div>Materials Required</div> <div>None</div> <div>NOTE</div> <div>Component locations are shown in WP007 00. Test displays are shown on figure 1 and test equipment hookup is shown on figure 2.</div> <div>For the remainder of this test, test set refers to TS-3021/AWM-54. Test set is part of aircraft firing circuit test set AN/AWM-54.</div> <div>1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).</div> <div><div>WARNING</div><div>To prevent injury or death of personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.</div><table><tbody><tr><td>a. Make sure electrical power is off (A1-F18AC-LMM-000).</td><td></td><td></td></tr><tr><td>b. Make sure all weapons are removed from the aircraft.</td><td></td><td></td></tr></tbody></table></div>			Part Number or Type Designation	Nomenclature	AN/AWM-54	Aircraft Firing Circuit Test Set	74D750020-1001	Test - Breech Adapter	-	Weight On Wheels (WOW) Wedge (Locally Manufactured)	a. Make sure electrical power is off (A1-F18AC-LMM-000).			b. Make sure all weapons are removed from the aircraft.		
Part Number or Type Designation	Nomenclature															
AN/AWM-54	Aircraft Firing Circuit Test Set															
74D750020-1001	Test - Breech Adapter															
-	Weight On Wheels (WOW) Wedge (Locally Manufactured)															
a. Make sure electrical power is off (A1-F18AC-LMM-000).																
b. Make sure all weapons are removed from the aircraft.																



Table 1. Emergency Jettison Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER)/BRU-41/BRU-42 if installed on aircraft.</p> <p>g. Make sure gun electrical signal safety switch (aft of door 6) is set to safe (extended) position.</p> <p>h. Make sure gun hold-back mechanism handle is set to cleared (gun hold-back handle indicator extended).</p> <p>i. Make sure AN/ALE-39 dispensers are removed from aircraft.</p> <p>2. TEST EQUIPMENT HOOKUP.</p> <p>a. Remove forward and aft chamber assemblies from breeches on Aircraft Bomb Ejector Racks BRU-32( ) on pylons to be tested.</p> <p>b. Remove test set and W1 cable from aircraft firing circuit test set AN/AWM-54 (figure 2).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">When a failed condition is indicated during test set self test, refer to NAVAIR 16-30AWM54-1 for troubleshooting. NAVAIR 16-30AWM54-1 is contained in aircraft firing circuit test set AN/AWM-54.</p>		
<p>c. Connect W1P1 of W1 cable to test set, W1P2 of W1 to breech test adapter, and do test set self test.</p>		

Table 1. Emergency Jettison Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>3. PRELIMINARY.</p> <p>a. On Digital Display Indicator ID-2150/ASM-612 in nose wheelwell, look at WPN SYS FAIL indicator.</p> <p>b. Make sure RADAR switch on SNSR pod control box panel assembly is OFF.</p> <p>c. Close hooks on Aircraft Bomb Ejector Rack BRU-32( ) and set ground safety handle to LOCKED.</p> <p>d. On Aircraft Guided Missile Launcher LAU-116( ), make sure all launcher hooks are closed and SAFETY RELEASE is rotated clockwise.</p> <p>e. Apply electrical power (A1-F18AC-LMM-000).</p> <p>f. Connect ground intercommunications (A1-F18AC-LMM-000).</p>	<p>WPN SYS FAIL indicator is black (not latched).</p> <p>SAFETY RELEASE INDICATOR shows GREEN-HOOKS LOCKED.</p>	<p>If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).</p> <p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If SAFETY RELEASE will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If malfunction occurs during this test, make sure circuit breakers shown in WP008 00 are closed.</p>		
<p>g. On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p>	<p>Switches remain on (latched).</p>	<p>1. If switches unlatch in 10 to 30 seconds, apply external cooling air to aircraft (A1-F18AC-LMM-000).</p> <p>2. If no switches remain on, do GND PWR Switch System Test (A1-F18AC-420-200, WP006 00).</p> <p>3. If one but not all switches remain on, replace GND PWR Control Panel Assembly (A1-F18AC-420-300, WP023 00).</p>

Table 1. Emergency Jettison Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>h. On left and right Digital Display Indicator IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup, Adjust BRT and CONT for best display.</p>	<p>1. LDDI and RDDI have displays and center pushbutton switch on bottom row is labeled MENU.</p>	<p>1. No display on LDDI, F/A-18A, do table 1 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 1 (A1-F18AC-745-200, WP007 00).</p> <p>2. No display on RDDI, F/A-18A, do table 2 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 2 (A1-F18AC-745-200, WP007 00).</p> <p>3. If STANDBY is displayed F/A-18A, do table 2 (A1-F18AC-745-200, WP004 00). F/A-18B, do table 2 (A1-F18AC-745-200, WP005 00).</p> <p>4. If BRT or CONT controls do not affect display, replace left or right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>
<p>4. PROCEDURE.</p>	<p>2. LDDI has cautions and advisories displayed.</p>	<p>Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>
<p>a. On RDDI, press MENU pushbutton switch.</p>	<p>Menu display appears on RDDI.</p>	<p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>
<p>b. On RDDI, press STORES pushbutton switch.</p>	<p>Stores display appears on RDDI.</p>	<p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>
<p>c. Install breech test adapter in forward breech on rack to be tested.</p>		

Table 1. Emergency Jettison Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px auto; width: 150px;"><b>WARNING</b></div> <p>To prevent retraction of landing gear, be sure nose and main landing gear ground safety pins are installed when setting WOW Wedge under right main gear, proximity switch.</p>		
d. On right main gear, set WOW Wedge under proximity switch (figure 2).	No change in RDDI stores display.	1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black if not, read <span style="border: 1px solid black; padding: 0 2px;">1</span> in nose wheelwell or <span style="border: 1px solid black; padding: 0 2px;">2</span> in cockpit DDI and record maintenance codes. If maintenance code 072, 073, 076, 077, 078 or 082, is displayed, do table 1 (WP010 00).
e. On test set, set FCTN selector switch to F/C.		2. If HUNG is displayed in stores display, do table 4 (WP019 00).
<div style="text-align: center; margin: 10px auto; width: 150px;"><b>NOTE</b></div> <p>If any step in the procedure below fails, do test set self test before doing troubleshooting. Breech test adapter must be removed from breech to do self test.</p>		
f. On test set, press and hold TEST switch.		
<div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px auto; width: 150px;"><b>CAUTION</b></div> <p>Do not hold EMERG JETT, PUSH TO JETT switch for more than 2 seconds or damage to electrical equipment may occur.</p>		
<div style="text-align: center; margin: 10px auto; width: 150px;"><b>NOTE</b></div> <p>Pylon station, ground safety handles remain UNLOCKED for remainder of test.</p>		
g. On master arm control panel assembly, press and release EMERG JETT, PUSH TO JETT switch.	1. Ground safety handle snaps to UNLOCKED. 2. GO light on test set comes on.	Do table 1 (WP019 00).  1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black, if not, read in nose wheelwell DDI or in cockpit DDI and record maintenance codes. If maintenance code 072, 073, 076, 077, 078, or 082 is displayed, do table 1 (WP010 00).  2. Do table 2 (WP019 00).

Table 1. Emergency Jettison Test (Continued)


Procedure	Normal Indication	Remedy for Abnormal Indication
h. On test set, release TEST switch.	GO light on test set goes off.	Replace test set.
i. On test set, set FCTN switch to S/V.		
j. On test set, press and release TEST switch.	GO light on test set comes on and remains on until TEST switch is released.	Do table 2 (WP019 00).
k. Remove breech test adapter from forward breech and install in aft breech.		
l. Repeat steps 4e through 4j and do step 4m.	Same as steps 4e through 4j.	Same as steps 4e through 4j.
m. On right main gear, remove WOW wedge from proximity switch.		
n. On test set, press and hold TEST switch.		
o. On master arm control panel assembly, press and release EMERG JETT, PUSH TO JETT switch.	Go light on test set comes on.	Do table 2 (WP019 00).
p. On test set, release TEST switch.	GO light on test set goes off.	Replace test set.
q. In F/A-18B rear cockpit, on EMERG JETT panel assembly, PUSH TO JETT switch, repeat steps 4d through 4p.	Same as steps 4d through 4p.	Same as steps 4d through 4p.
r. Repeat steps 4c through 4p on remaining Aircraft Bomb Ejector Racks BRU-32( ) on pylons to be tested or continue with next step.	Same as steps 4c through 4p.	Same as steps 4c through 4p.
<div style="text-align: center;">  </div> <p style="text-align: center;">To prevent internal rack failure, do not press ground safety handle button. After emergency jettison release, ground safety handle will disengage from mechanism if ground safety handle button is pressed with electrical power applied.</p>		
s. On GND PWR control panel assembly, set 3 switch to AUTO.		

Table 1. Emergency Jettison Test (Continued)


Procedure	Normal Indication	Remedy for Abnormal Indication
t. Move ground safety handle toward LOCKED position without pushing button.	Override solenoid and mechanism engage. Button extends approximately 1/8 inch.	<p>1. If ground safety handle button fails to extend, hold ground safety handle to UNLOCKED and work through access hole in sideplate to force crank of override solenoid counterclockwise until ground safety handle button extends.</p> <p>2. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00).</p>
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent rack release failures, the ground safety handle must be driven to LOCKED position, the button extends and the linkage is not visible in access hole.</p>		
<p>u. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>5. SHUTDOWN.</p> <p>a. On LDDI and RDDI set power switch to OFF.</p> <p>b. On GND PWR control panel assembly, set 3, 2 and 1 switches to AUTO.</p> <p>c. Remove electrical power (A1-F18AC-LMM-000).</p> <p>d. Disconnect ground intercommunications (A1-F18AC-LMM-000).</p>	<p>1. Switch remains on (latched).</p> <p>2. Ground safety handle moves to LOCKED within 180 seconds. Button extends approximately 1/4 inch and no linkage is visible in access hole.</p>	<p>1. If switch unlatches in 10 to 30 seconds, apply external cooling air to aircraft.</p> <p>2. If 3 switch will not remain on, replace GND PWR control panel assembly (A1-F18AC-420-300, WP023 00).</p> <p>Do table 3 (WP019 00).</p>

Table 1. Emergency Jettison Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>e. Remove breech test adapter from breech.</p> <p>f. Disconnect W1 cable from breech test adapter and test set and stow.</p> <p>g. Install chamber assemblies in breeches of Aircraft Bomb Ejector Racks BRU-32( ).</p>		
<p style="text-align: center;"><b>LEGEND</b></p> <p>1 ➤ On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p>2 ➤ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

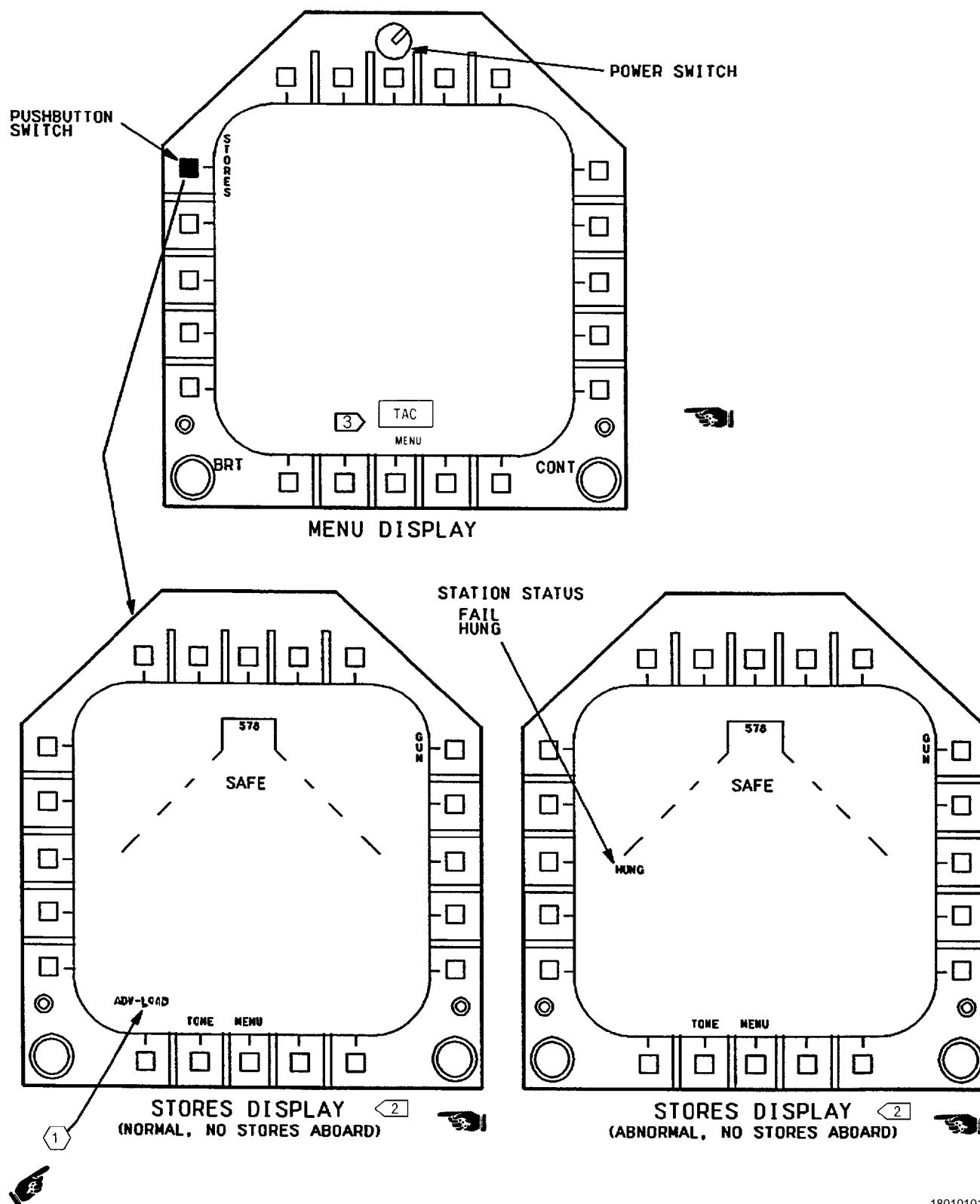
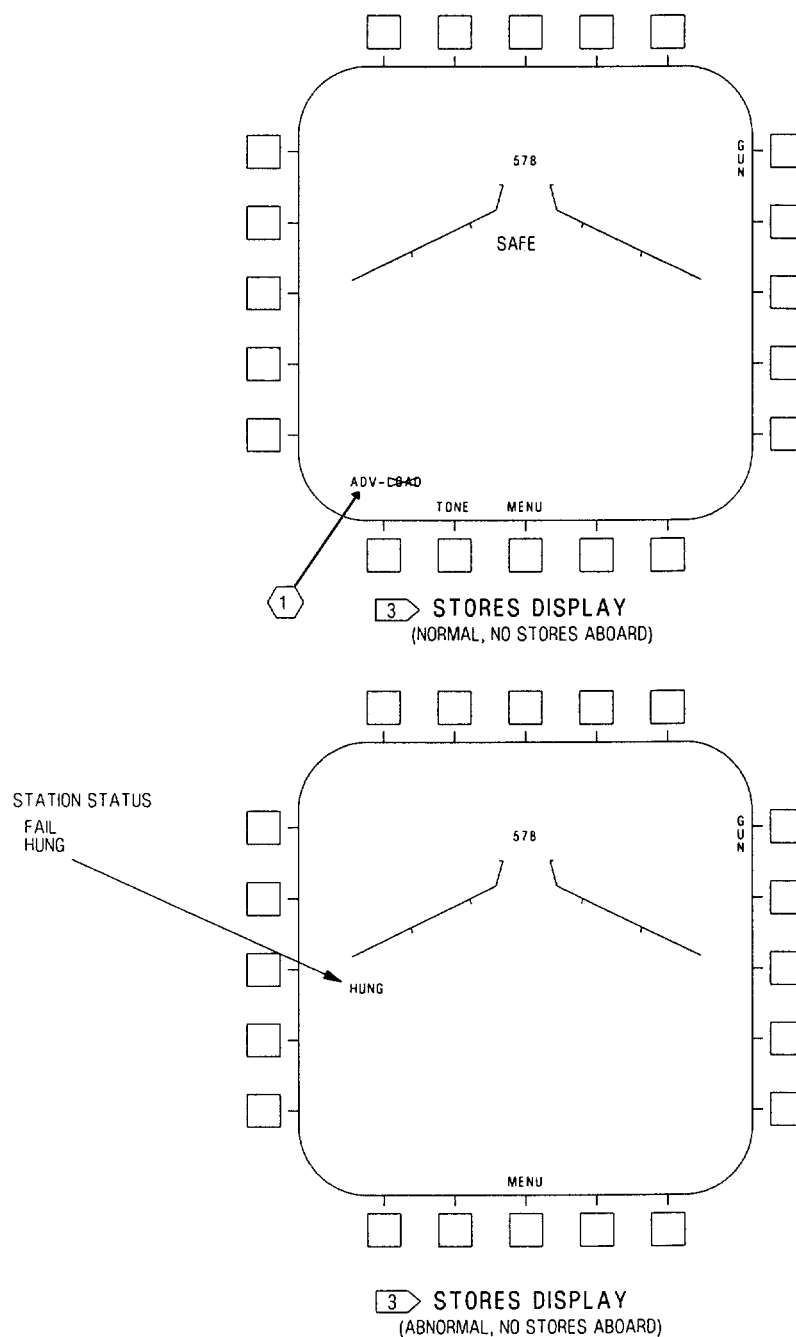


Figure 1. Test Displays (Sheet 1)





### LEGEND

- 1 LOAD FAULT ADVISORY EXIST WHEN RACK HOOKS ARE CLOSED AND NO WEAPON CODE OR FUZE CODE IS SET IN ARMAMENT COMPUTER, DOES NOT PREVENT EMERGENCY JETTISON.
- 2 WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A (A1-F18AC-SCM-000).
- 3 WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C (A1-F18AC-SCM-000).

Figure 1. Test Displays (Sheet 2)

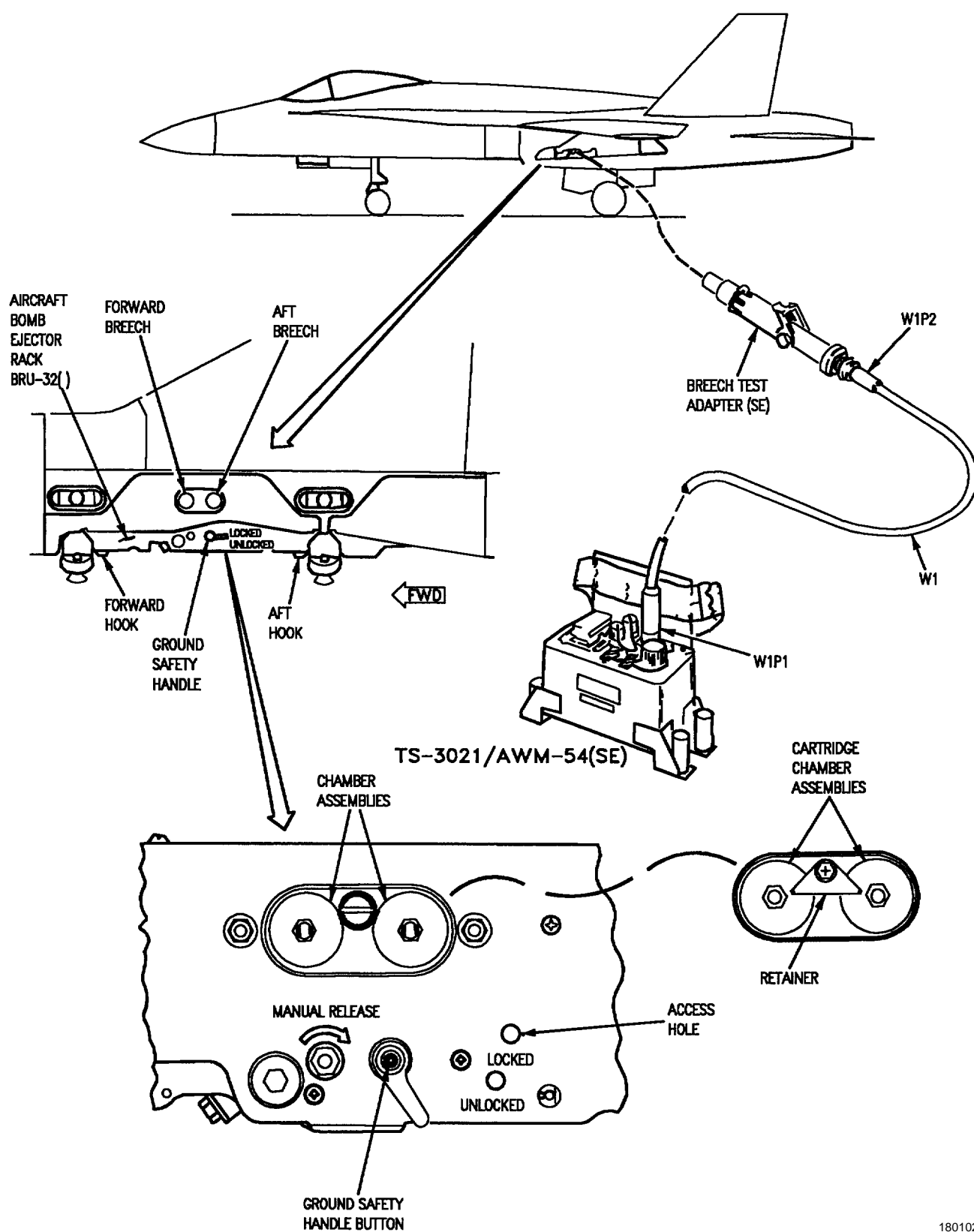


Figure 2. Test Equipment Hookup (Sheet 1)

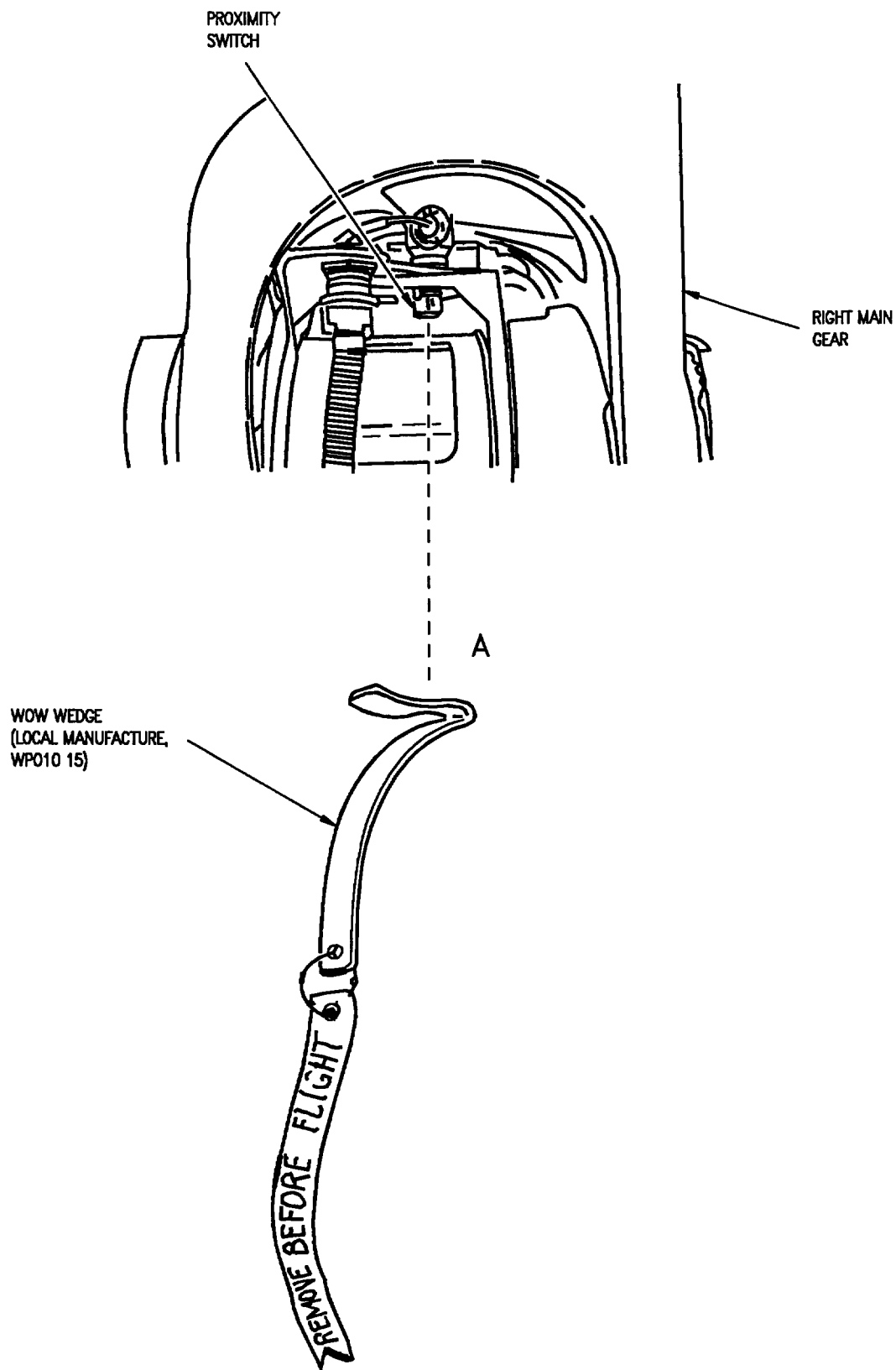


Figure 2. Test Equipment Hookup (Sheet 2)



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

TESTING - AIRCRAFT BOMB EJECTOR RACK BRU-32( ) EMERGENCY JETTISON TEST - USING LDG  
GEAR CONTROL HANDLE

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Weapon Control Systems .....	A1-F18AC-740-200
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AAC 778	25 Oct 84	F/A-18A and F/A-18B Weapons Control Sys; Aircraft Bomb Ejector Rack (BRU-32/A), Modification of (ECP-MDA-F/A-18-00129)	15 Jun 84	-
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorpo- ration of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Emergency Jettison Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>System Required Components</b>		
All system components installed.		
<b>Related Systems Required</b>		
Electrical System		
<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
AN/AWM-54	Aircraft Firing Circuit Test Set	
74D750020-1001	Test - Breech Adapter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
This test will be done only, during the 364 Day Special Landing Gear/NLG Steering Emergency Functional, referenced in Maintenance Requirement Cards (MRC), to make sure switches function properly that are actuated by LDG GEAR control handle positioned UP.		
Component locations are shown in WP007 00. Test displays are shown on figure 1 and test equipment hookup is shown on figure 2.		
For the remainder of this test, test set refers to TS-3021/AWM-54. Test set is part of aircraft firing circuit test set AN/AWM-54.		
1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).		
<div>WARNING</div>		
To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.		
a. Make sure electrical power is off (A1-F18AC-LMM-000).		

Table 1. Emergency Jettison Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>b. Make sure all weapons are removed from aircraft.</p> <p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER) BRU-41/BRU-42 if installed on aircraft.</p> <p>g. Make sure gun electrical signal safety switch (aft of door 6) is set to safe (extended) position.</p> <p>h. Make sure gun hold-back mechanism handle is set to cleared (gun hold-back handle indicator extended).</p> <p>i. Make sure AN/ALE-39 dispensers are removed from aircraft.</p> <p>2. PRELIMINARY.</p> <p>a. Remove forward and aft chamber assemblies from breeches on Aircraft Bomb Ejector Racks BRU-32( ) on pylons to be tested.</p> <p>b. On Aircraft Guided Missile Launcher LAU-116( ), make sure all launcher hooks are closed and SAFETY RELEASE is rotated clockwise.</p> <p>c. Remove test set and W1 cable from aircraft firing circuit test set AN/AWM-54 (figure 2).</p>	<p>SAFETY RELEASE INDICATOR shows GREEN-HOOKS LOCKED.</p>	<p>1. With hooks closed, rotate SAFETY RELEASE clockwise.</p> <p>2. If SAFETY RELEASE will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>

Table 1. Emergency Jettison Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>When a failed condition is indicated during test set self test, refer to NAVAIR 16-30AWM54-1 for troubleshooting. NAVAIR 16-30AWM54-1 is contained in Aircraft Firing Circuit Test Set AN/AWM-54.</p>		
<p>d. Connect W1P1 of W1 cable to test set, W1P2 of W1 to breech test adapter, and do test set self test.</p> <p>e. On Digital Display Indicator ID-2150/ASM-612 in nose wheelwell, look at WPN SYS FAIL indicator.</p> <p>f. Make sure RADAR switch on SNSR pod control box panel assembly is OFF.</p> <p>3. PROCEDURE.</p> <p>a. Close hooks on Aircraft Bomb Ejector Rack BRU-32( ) and set ground safety handle to LOCKED.</p>	<p>WPN SYS FAIL indicator is black (not latched).</p>	<p>If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).</p>
<p align="center"><b>WARNING</b></p> <p>To prevent death or injury to personnel or damage to aircraft make sure jacks in-place safing (safing only) is done before moving LDG GEAR control handle to UP.</p>		
<p>b. Do jacks-in-place safing (safing only) (A1-F18AC-LMM-000).</p> <p>c. Press DOWNLOCK ORIDE button and set LDG GEAR control handle to UP and LOCKED.</p> <p>d. Apply electrical power (A1-F18AC-LMM-000).</p> <p>e. Connect ground intercommunications hookup (A1-F18AC-LMM-000).</p>		



Table 1. Emergency Jettison Test (Continued)


Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>If malfunction occurs during this test, make sure circuit breakers shown in WP008 00 are closed.</p>		
<p>f. On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>g. Install breech test adapter in forward breech on rack to be tested.</p> <p>h. On test set, set FCTN selector switch to F/C.</p>	Switches remain on (latched).	<p>1. If switches unlatch in 10 to 30 seconds, apply external cooling air to aircraft (A1-F18AC-LMM-000).</p> <p>2. If no switches remain on, do GND PWR Switching System Test (A1-F18AC-420-200, WP006 00).</p> <p>3. If one but not all switches remain on, replace GND PWR Control Panel Assembly (A1-F18AC-420-300, WP023 00).</p>
<p align="center"><b>NOTE</b></p> <p>If any step in the procedure below fails, do test set self test before doing troubleshooting. Breech test adapter must be removed from breech to do self test.</p>		
i. On test set, press and hold TEST switch.		
<p align="center">  </p> <p align="center">Do not hold EMERG JETT, PUSH TO JETT switch for more than 2 seconds or damage to electrical equipment may occur.</p>		
<p align="center"><b>NOTE</b></p> <p>Pylon station, ground safety handles remain UNLOCKED for remainder of test.</p>		
j. On master arm control panel assembly, press and release EMERG JETT, PUSH TO JETT switch.	<p>1. Ground safety handle snaps to UNLOCKED.</p> <p>2. GO light on test set comes on.</p>	<p>Do table 1 (WP019 00).</p> <p>1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black, if not, read on nose wheelwell DDI or on cockpit DDI and record maintenance codes. If maintenance code 072, 073, 076, 077, 078, or 082 is displayed do table 1 (WP010 00).</p> <p>2. Do table 2 (WP019 00).</p>

Table 1. Emergency Jettison Test (Continued)


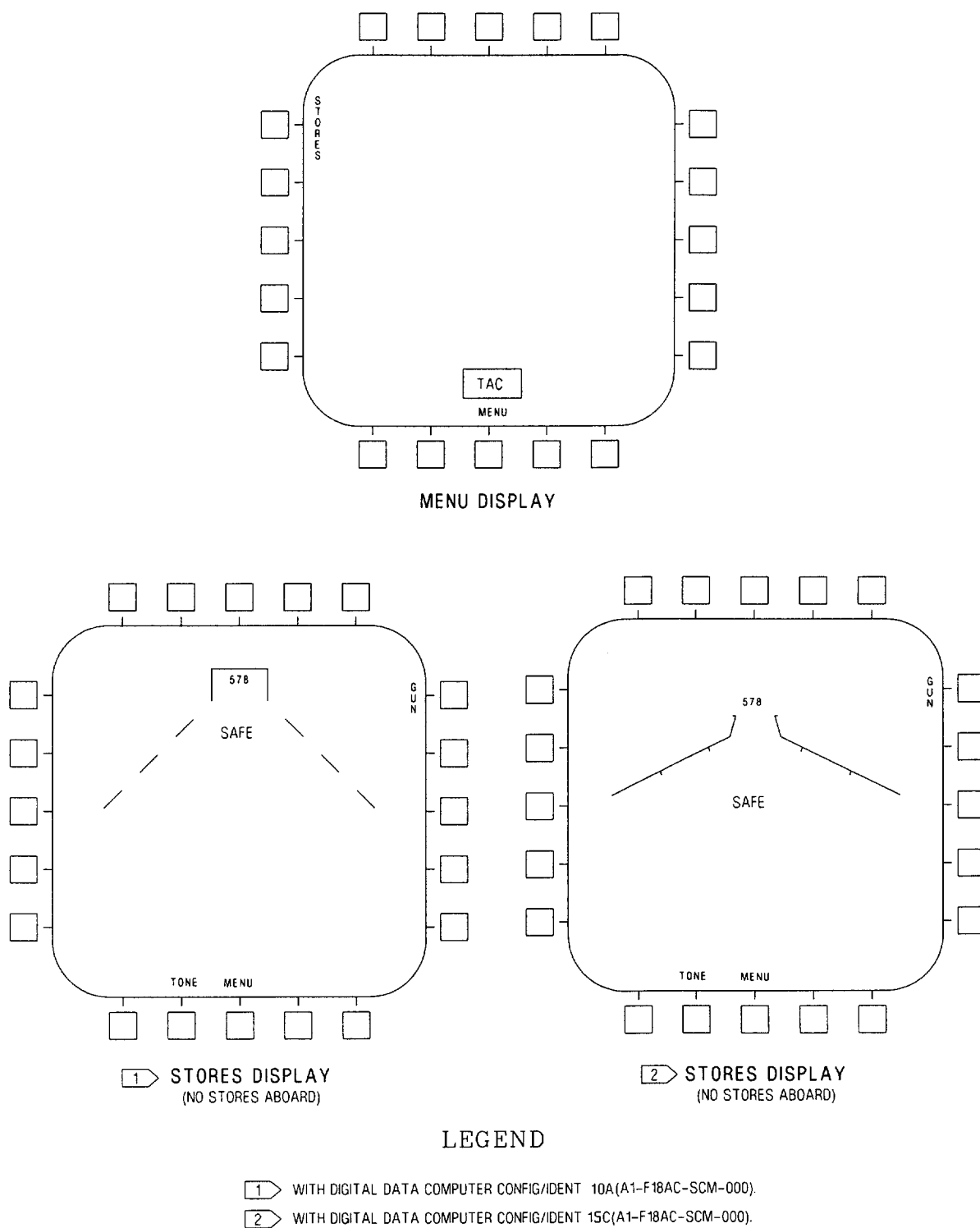
Procedure	Normal Indication	Remedy for Abnormal Indication
k. On test set, release TEST switch.	GO light on test set goes off.	Replace test set.
l. On test set, set FCTN switch to S/V.		
m. On test set, press and release TEST switch.	GO light on test set comes on and remains on until TEST switch is released.	Do table 2 (WP019 00).
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>After emergency jettison release, ground safety handle will disengage from mechanism if ground safety handle button is pressed with electrical power applied, to prevent damage to equipment.</p>		
n. On GND PWR control panel assembly, set 3 switch to AUTO.		
o. Move ground safety handle toward LOCKED position without pushing button.	Override solenoid and mechanism engage.	<p>1. If ground safety handle button fails to detent, hold ground safety handle to UNLOCKED and work through access hole in sideplate to force crank of override solenoid counterclockwise until ground safety handle button detents.</p> <p>2. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00).</p>
p. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.	<p>1. Switch remains on (latched).</p> <p>2. Ground safety handle moves to LOCKED within 180 seconds.</p>	<p>1. If switch unlatches in 10 to 30 seconds, apply external cooling air to aircraft.</p> <p>2. If 3 switch will not remain on, do GND PWR Switching System Test (A1-F18AC-420-200, WP006 00).</p> <p>Do table 3 (WP019 00).</p>
q. On GND PWR control panel assembly, set 3, 2 and 1 switches to AUTO.		

Table 1. Emergency Jettison Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>r. Set LDG GEAR control handle to DN.</p> <p>s. Remove electrical power (A1-F18AC-LMM-000).</p> <p>t. Disconnect ground intercommunications (A1-F18AC-LMM-000).</p> <p>u. Remove breech test adapter from breech.</p> <p>v. Disconnect W1 cable from breech test adapter and test set and stow.</p> <p>w. Install chamber assemblies in breeches of Aircraft Bomb Ejector Racks BRU-32( ).</p>		



**Figure 1. Test Displays**

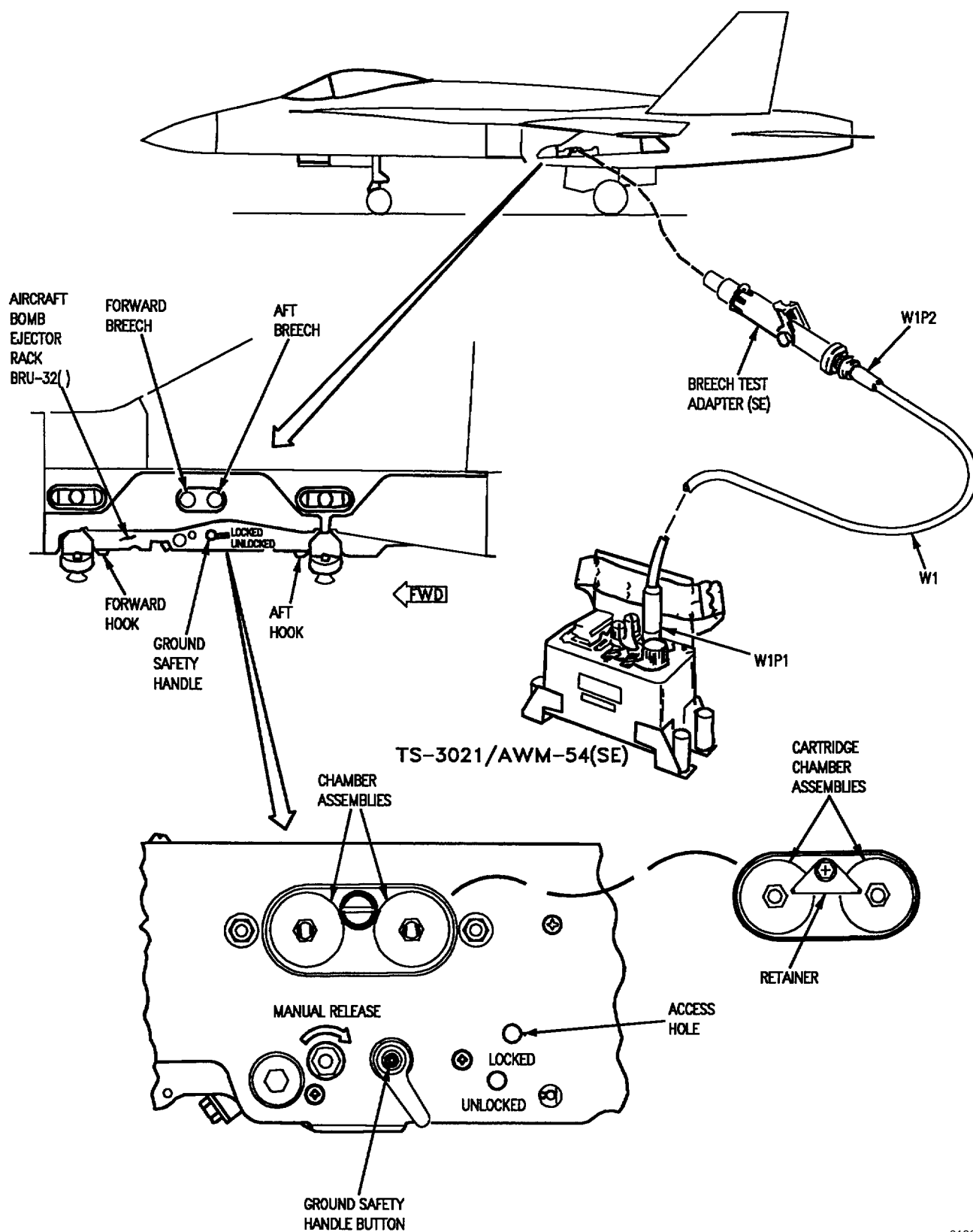


Figure 2. Test Equipment Hookup



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIRCRAFT BOMB EJECTOR RACK BRU-32( ) EMERGENCY JETTISON TEST

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00
Locally Manufactured Test Equipment .....	WP010 15

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 57	-	Improved Aircraft Monitor And Control (AMAC), Installation Of (ECP MDA-F/A-18A-00087)	15 Jan 87	ECP cover- age only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDAF/A-18-0583)	1 Feb 01	-

**Table 1. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
-	Weight On Wheels (WOW) Wedge (Locally Manufactured)	
Materials Required		
None		
NOTE		
Emergency Jettison Schematic (A1-F18AC-740-500, WP018 00) and Launcher/Rack Lock/Unlock Schematic (A1-F18AC-740-500, WP020 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-32( ) Aircraft Fuselage Centerline Pylon SUU-62( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Connector Plate Assembly Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Landing Gear Control Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		



**Table 1. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
<p style="text-align: center;"><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p>		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.		
(3) Open door 509 on centerline pylon (A1-F18AC-LMM-010).		
(4) Disconnect 61P-Z105A from Aircraft Bomb Ejector Rack BRU-32( ) on centerline pylon.		
(5) Turn on electrical power (A1-F18AC-LMM-000).		
(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div>		
<p>To prevent retraction of landing gear, be sure nose and main landing gear ground safety pins are installed when setting WOW Wedge under right main gear, proximity switch.</p>		
(7) Set WOW Wedge under right main gear, proximity switch or if on jacks, set LDG GEAR control handle UP.		
(8) On Aircraft Wing Pylon SUU-63( ), do substeps listed below:		
(a) Connect multimeter between 61P-W097A pins M and L (ground).		

**Table 1. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(b) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds. Does 24/28vdc exist at 61P-W097A pin M? .....	b	e
(9) On Aircraft Fuselage Centerline Pylon SUU-62( ) do substeps listed below:		
(a) Connect multimeter between 61P-Z105A pins M and L (ground).		
(b) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds. Does 24/28vdc exist at 61P-Z105A pin M? .....	n	e
b. Do substeps listed below on wing pylon:		
(1) Remove WOW Wedge from right main gear, proximity switch or set LDG GEAR control handle DN.		
(2) On GND PWR control panel assembly, set 3 switch to AUTO.		
(3) Turn off electrical power (A1-F18AC-LMM-000).		
(4) Open door 504 on wing pylon (A1-F18AC-LMM-010).		
(5) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V).		
(6) Does continuity exist from 61P-W012A pin e to 61P-W097A pin M? .....	c	d
c. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step w .....	-	-
d. Does continuity exist from 61P-W097A pin L to aircraft ground? .....	f	g
e. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step w .....	-	-
f. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist from:		
Station 7: 52J-V067 pin 51 to ground		
Station 8: 52J-V068 pin 51 to ground		
Station 2: 52J-U062 pin 51 to ground		
Station 3: 52J-U063 pin 51 to ground? .....	r	c
g. Do substeps listed below:		
(1) Turn on electrical power (A1-F18AC-LMM-000).		

**Table 1. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(2) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.</p>		
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;"> <b>WARNING</b> </div> <p>To prevent retraction of landing gear, be sure nose and main landing gear ground safety pins are installed when setting WOW Wedge under right main gear, proximity switch.</p>		
<p>(3) Set WOW Wedge under right main gear, proximity switch.</p>		
<p>(4) Connect multimeter between 61P-W012A pins F and z (ground).</p>		
<p>(5) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds and test for 24/28vdc at 61P-W012A pin F.</p>		
<p>(6) Repeat substeps (4) and (5) for 61P-W012A pins G and z (ground).</p>		
<p>(7) Did 24/28vdc exist at 61P-W012A pins F and G? .....</p>	h	m
<p>h. Do substeps listed below:</p>		
<p>(1) Remove WOW Wedge from right main gear, proximity switch.</p>		
<p>(2) On GND PWR control panel assembly, set 3 switch to AUTO.</p>		
<p>(3) Turn off electrical power (A1-F18AC-LMM-000).</p>		
<p>(4) Open door 14R (A1-F18AC-LMM-010).</p>		
<p>(5) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p>		
<p>(6) Does continuity exist from:</p>		
<p style="padding-left: 40px;">Aircraft ground to 61P-W012A pin z</p> <p style="padding-left: 40px;">61P-F001B pin 30 to 61P-W012A pin F</p> <p style="padding-left: 40px;">61P-F001B pin 31 to 61P-W012A pin G? .....</p>	r	i
<p>i. Do substeps listed below:</p>		
<p>(1) Do jacks-in-place safing, safing (A1-F18AC-LMM-000).</p>		
<p>(2) Set LDG GEAR control handle to UP.</p>		
<p>(3) Does continuity exist from 61P-F001B pin 72 to aircraft ground? .....</p>	j	k

**Table 1. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
j. Do substeps listed below:		
(1) Set LDG GEAR control handle to DN.		
(2) Do jacks-in-place safing, removal (A1-F18AC-LMM-000).		
(3) Disconnect connector 12P-H008 from landing gear control (A1-F18AC-130-300, WP004 00).		
(4) Does continuity exist between:		
12P-H008 pin 34 to aircraft ground		
12P-H008 pin 32 to 61P-F001B pin 72? .....	r	l
k. On F/A-18A, do table 3 (WP013 00); on F/A-18B, do table 5 (WP013 00) and do step w .....	-	-
l. Replace landing gear control (A1-F18AC-130-300, WP004 00) and do step w .....	-	-
m. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step w .....	-	-
n. Do substeps listed below on centerline pylon:		
(1) Remove WOW Wedge from right main gear, proximity switch or set LDG GEAR control handle DN.		
(2) On GND PWR control panel assembly, set 3 switch to AUTO.		
(3) Turn off electrical power (A1-F18AC-LMM-000).		
(4) Disconnect 61P-R016A from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).		
(5) Does continuity exist from 61P-Z105A pin M to 61P-R016A pin 65? .....	o	p
o. Do substeps listed below:		
(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly.		
(3) Does continuity exist from 61P-Z105A pin M to 61P-Z167 pin M? .....	u	q
p. Does continuity exist from 61P-Z105A pin L to aircraft ground? .....	r	v
q. Does continuity exist from 61P-R016A pin 65 to 61J-Z167 pin M? .....	s	v
r. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step w .....	-	-

**Table 1. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
s. Do substeps listed below:		
(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(2) Disconnect 61P-R167 from 61J-Z167 on connector plate assembly.		
(3) Does continuity exist from 61P-R016A pin 65 to 61P-R167 pin M? .....	r	t
t. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step w .....	-	-
u. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step w .....	-	-
v. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step w .....	-	-
w. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-Z105A		
(2) 61P-R016A		
(3) 61P-Z167		
(4) 61P-R167		
(5) Doors 509 or 510 on centerline pylon		
(6) 61P-W097A		
(7) 61P-W012A		
(8) Door 504 on wing pylon		
(9) Connector plate assembly		
(10) Remove WOW Wedge or set LDG GEAR control handle DN		
(11) Aircraft Wing Pylon SUU-63( )		
(12) Door 14R		
(13) 61P-F001B		
(14) 12P-H008 .....	-	-

**Table 1A. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using WOW Wedge) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
-	Weight On Wheels (WOW) Wedge (Locally Manufactured)	
Materials Required		
None		
NOTE		
Emergency Jettison Schematic (A1-F18AC-740-500, WP018 00) and Launcher/Rack Lock/Unlock Schematic (A1-F18AC-740-500, WP020 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-32( )		
Aircraft Fuselage Centerline Pylon SUU-62( )		
Aircraft Wing Pylon SUU-63( )		
Aircraft Wiring		
Connector Plate Assembly		
Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Landing Gear Control		
No. 5 Circuit Breaker Panel Assembly		
Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
NOTE		
The question used in logic tree "Does continuity exist" means to test for the items listed below:		
1. Pin to pin test per procedural step.		
2. Shorts to ground.		
3. Shorts between surrounding pins on connectors.		
4. Shorts between shield and conductors.		
5. Shield continuity.		
a. Is failure on centerline pylon? .....	b	m
b. On Aircraft Wing Pylon SUU-63( ), do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.		
(3) Remove WOW Wedge under right main gear proximity switch.		

**Table 1A. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using WOW Wedge) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292  
(Continued)**

Procedure	No	Yes
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p>To prevent death or injury to personnel or damage to aircraft make sure jacks-in-place safing (safing only) is done before moving LDG GEAR control handle to UP.</p>		
(4) Do jacks in place safing (A1-F18AC-LMM-000).		
(5) Turn on electrical power (A1-F18AC-LMM-000).		
(6) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(7) Press DOWNLOCK ORIDE button and set LDG GEAR control handle to UP and LOCKED.		
(8) Connect multimeter between 61P-W097A pins M and L (aircraft ground).		
(9) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds. Does 24/28vdc exist at 61P-W097A pin M? .....	c	f
c. Do substeps listed below on wing pylon:		
(1) Set LDG GEAR control handle DN.		
(2) Set 3 switch to AUTO.		
(3) Open door 504 on wing pylon (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012A from J1 on Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V).		
(5) Does continuity exist between 61P-W012A pin a and 61P-W097A pin M? .....	d	e
d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step ah .....	-	-
e. Does continuity exist between 61P-W097A pin L and aircraft ground? .....	g	h
f. Do substeps listed below:		
(1) Set LDG GEAR control handle DN.		
(2) Open door 6 (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 12P-A004A or <input type="checkbox"/> 2 12P-E004A from J1 on Landing Gear Control Unit.		
(4) Does continuity exist between 61P-F001B pin 44 and <input type="checkbox"/> 1 12P-A004A or <input type="checkbox"/> 2 12P-E004A pin 112? .....	t	ag
g. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
Station 2: 52J-U062 pin 51 and aircraft ground		
Station 3: 52J-U063 pin 51 and aircraft ground		
Station 7: 52J-V067 pin 51 and aircraft ground		
Station 8: 52J-V068 pin 51 and aircraft ground? .....	t	d

**Table 1A. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using WOW Wedge) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292  
(Continued)**

Procedure	No	Yes
<p>h. Do substeps listed below:</p> <p>(1) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(2) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p>		
<div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p>To prevent retraction of landing gear, be sure nose and main landing gear ground safety pins are installed when setting WOW Wedge under right main gear proximity switch.</p>		
<p>(3) Set WOW Wedge under right main gear proximity switch.</p> <p>(4) Connect multimeter between 61P-W012A pins F and z (aircraft ground).</p> <p>(5) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds and test for 13.3/14.3vdc at 61P-W012A pin F.</p> <p>(6) Repeat substeps (4) and (5) for 61P-W012A pins G and z (aircraft ground).</p> <p>(7) Did 13.3/14.4vdc exist at 61P-W012A pins F and G? .....</p>	i	x
<p>i. Do substeps listed below:</p> <p>(1) Remove WOW Wedge from right main gear proximity switch.</p> <p>(2) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(3) Open door 14R (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(5) Does continuity exist between:</p> <p style="padding-left: 20px;">Aircraft ground and 61P-W012A pin z</p> <p style="padding-left: 20px;">61P-F001B pin 30 and 61P-W012A pin F</p> <p style="padding-left: 20px;">61P-F001B pin 31 and 61P-W012A pin G? .....</p>	j	k
<p>j. Do substeps listed below:</p> <p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist between:</p> <p style="padding-left: 20px;">61P-W012A pin z and 52P-W018 pin 99</p> <p style="padding-left: 20px;">61P-W012A pin F and 52P-W018 pin 19</p> <p style="padding-left: 20px;">61P-W012A pin G and 52P-W018 pin 27? .....</p>	d	t
<p>k. Do substeps listed below:</p> <p style="padding-left: 20px;">Do table 2 (WP013 00)</p> <p style="padding-left: 20px;">Do step aj .....</p>	-	-
<p>l. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V). (A1-F18AC-740-300, WP009 00 and do step ah .....</p>	-	-
<p>m. On Aircraft Fuselage Centerline Pylon SUU-62( ) do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 509 on centerline pylon (A1-F18AC-LMM-010).</p>		



**Table 1A. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using WOW Wedge) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292  
(Continued)**

Procedure	No	Yes
(3) Disconnect 61P-Z105A from Aircraft Bomb Ejector Rack BRU-32( ) on centerline pylon.		
<div style="border: 1px solid black; padding: 5px; text-align: center;"><b>WARNING</b></div> <p>To prevent death or injury to personnel or damage to aircraft make sure jacks-in-place safing (safing only) is done before moving LDG GEAR control handle to UP.</p>		
(4) Do jacks-in-place safing (A1-F18AC-LMM-000).		
(5) Turn on electrical power (A1-F18AC-LMM-000).		
(6) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for seconds.		
(7) Remove WOW Wedge under right main gear proximity switch.		
<div style="border: 1px solid black; padding: 5px; text-align: center;"><b>WARNING</b></div> <p>To prevent death or injury to personnel or damage to aircraft make sure jacks-in-place safing (safing only) is done before moving LDG GEAR control handle to UP.</p>		
(8) Press DOWNLOCK ORIDE button and set LDG GEAR control handle UP and LOCKED.		
(9) Connect multimeter between 61P-Z105A pins M and L (aircraft ground).		
(10) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds. Does 24/28vdc exist at 61P-Z105A pin M? .....	n	f
n. Do substeps listed below:		
(1) Set LDG GEAR control handle DN.		
(2) Turn off electrical power (A1-F18AC-LMM-000).		
(3) In right main landing gear wheelwell, disconnect 61P-R016A from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).		
(4) Does continuity exist between 61P-Z105A pin M and 61P-R016A pin 65? .....	o	p
o. Do substeps listed below:		
(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-2167 from 61J-2167 on connector plate assembly.		
(3) Does continuity exist between 61P-Z105A pin M and 61P-2167 pin M? .....	v	s
p. Does continuity exist between 61P-Z105A pin L and aircraft ground? .....	q	ab
q. Do substeps listed below:		
(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(2) Disconnect 61P-8167 from connector plate assembly.		
(3) Does continuity exist between 61P-8167 pin L and aircraft ground? .....	t	r
r. Do substeps listed below:		
(1) Disconnect 61P-2167 from connector plate.		
(2) Does continuity exist between 61P-2167 pin L and 61P-Z105A pin L? .....	v	u

**Table 1A. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using WOW Wedge) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292  
(Continued)**

Procedure	No	Yes
s. Do substeps listed below:		
(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(2) Disconnect 61P-8167 from 61J-2167 on connector plate assembly.		
(3) Does continuity exist between 61P-R016A pin 65 and 61P-8167 pin M? .....	t	u
t. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step ah .....	-	-
u. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step ah .....	-	-
v. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step ah .....	-	-
w. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step ah .....	-	-
x. Does 24/28vdc exist at 61P-W012A pin AA? .....	y	l
y. Do substeps listed below:		
(1) Remove WOW wedge from right main gear proximity switch.		
(2) Turn off electrical power (A1-F18AC-LMM-000).		
(3) Open door 10R (A1-F18AC-LMM-010).		
(4) Disconnect 52P-D092B from no. 5 circuit breaker panel assembly.		
(5) Does continuity exist between:		
Station 2: 61P-W012A pin AA and 52P-D092B pin H		
Station 3: 61P-W012A pin AA and 52P-D092B pin G		
Station 7: 61P-W012A pin AA and 52P-D092B pin F		
Station 8: 61P-W012A pin AA and 52P-D092B pin J? .....	z	as
z. Do substeps below:		
(1) Remove Wing Pylon (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
Station 2: 52J-U062 pin 98 and 52P-D092B pin H		
Station 3: 52J-U063 pin 98 and 52P-D092B pin G		
Station 7: 52J-V067 pin 98 and 52P-D092B pin F		
Station 8: 52J-V068 pin 98 and 52P-D092B pin J? .....	t	d
aa. Isolate malfunction between No. 5 Circuit Breaker Panel Assembly wiring and 61CBD130, 61CBD131, 61CBD134, or 61CBD135 (A1-F18AC-420-300, WP026 00) and do step ah .....	-	-
ab. Do substeps listed below:		
(1) Turn on electrical power (A1-F18AC-LMM-000).		
(2) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		

**Table 1A. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using WOW Wedge) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292  
(Continued)**

Procedure	No	Yes
<div style="border: 1px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div>		
<p>To prevent retraction of landing gear, be sure nose and main landing gear ground safety pins are installed when setting WOW Wedge under right main gear, proximity switch.</p>		
(3) Set WOW Wedge under right main gear, proximity switch.		
(4) Connect multimeter between 61P-R016A pins 75 and 81 (aircraft ground).		
(5) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds and test for 13.3/14.3 vdc at 61P-R016A pin 75.		
(6) Repeat steps (4) and (5) for 61P-R016A pins 84 and 81 (aircraft ground).		
(7) Did 13.3/14.4 vdc exist at 61P-R016A pins 75 and 84? .....	ac	ad
ac. Do substeps listed below:		
(1) Remove WOW Wedge from right main gear, proximity switch.		
(2) Turn off electrical power (A1-F18AC-LMM-000).		
(3) Open door 14R (A1-F18AC-LMM-010).		
(4) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(5) Does continuity exist between:		
Aircraft ground and 61P-R016A pin 81 61P-F001B pin 30 and 61P-R016A pin 75		
61P-F001B pin 31 and 61P-R016A pin 84? .....	t	k
ad. Does 24/28vdc exist at 61P-R016A pin AA? .....	ae	w
ae. Do substeps listed below:		
(1) Remove WOW Wedge from right main gear, proximity switch.		
(2) Turn off electrical power (A1-F18AC-LMM-000).		
(3) Open door 10R (A1-F18AC-LMM-010).		
(4) Disconnect 52P-D092B from no. 5 circuit breaker panel assembly.		
(5) Does continuity exist between 61P-R016A pin 90 and 52P-D092B pin L? .....	t	af
af. Isolate malfunction between No. 5 Circuit Breaker Panel assembly wiring and 61CBD136 (A1-F18AC-420-300, WP026 00) and do step ah .....	-	-
ag. Malfunction is caused by one of the following:		
(1) Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) .....	-	-
(2) Landing Gear Control Unit (A1-F18AC-130-300, WP003 00).		
(3) Armament Computer (A1-F18AC-740-300, WP006 00).		
Do step ah .....	-	-
ah. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) <input type="checkbox"/> 1 12P-A004A or <input type="checkbox"/> 2 12P-E004A		

**Table 1A. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using WOW Wedge) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292  
(Continued)**

Procedure	No	Yes
(2) 52P-D092B		
(3) 61P-F001B		
(4) 61P-R016A		
(5) 61P-8167		
(6) 61P-W012A		
(7) 61P-W097A		
(8) 61P-Z105A		
(9) 61P-2167		
(10) Aircraft Wing Pylon SUU-63( )		
(11) Connector Plate Assembly		
(12) Doors 10R, 14R, 504, 509, and 510		
(13) Remove WOW Wedge		
(14) Set LDG GEAR Control Handle DN . . . . .	-	-
<b>LEGEND</b>		
<div>1 On F/A-18A after F/A-18 AFC 253.</div> <div>2 On F/A-18A after F/A-18 AFC 292.</div>		

**Table 1B. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using LDG GEAR Control Handle) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
-	Weight On Wheels (WOW) Wedge (Locally Manufactured)
Materials Required	
None	
NOTE	
Emergency Jettison Schematic (A1-F18AC-740-500, WP018 00) and Launcher/Rack Lock/Unlock Schematic (A1-F18AC-740-500, WP020 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	

**Table 1B. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using LDG GEAR Control Handle) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-32( ) Aircraft Fuselage Centerline Pylon SUU-62( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Connector Plate Assembly Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Landing Gear Control No. 5 Circuit Breaker Panel Assembly Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<b>NOTE</b>		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is failure on centerline pylon? .....	b	o
b. On Aircraft Wing Pylon SUU-63( ), do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.		
(3) Make sure LDG GEAR control handle is in DN position.		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div>		
<p>To prevent retraction of landing gear, be sure nose and main landing gear ground safety pins are installed when setting WOW Wedge under right main gear proximity switch.</p>		
(4) Set WOW Wedge under right main gear proximity switch.		
(5) Turn on electrical power (A1-F18AC-LMM-000).		
(6) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(7) Connect multimeter between 61P-W097A pins M and L (aircraft ground).		
(8) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds. Does 24/28vdc exist at 61P-W097A pin M? .....	c	f
c. Do substeps listed below on wing pylon:		
(1) Remove WOW Wedge from right main gear proximity switch.		
(2) Set 3 switch to AUTO.		

**Table 1B. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using LDG GEAR Control Handle) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(3) Open door 504 on wing pylon (A1-F18AC-LMM-010). (4) Disconnect 61P-W012A from J1 on Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V). (5) Does continuity exist between 61P-W012A pin a and 61P-W097A pin M? .....	d	e
d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step aj .....	-	-
e. Does continuity exist between 61P-W097A pin L and aircraft ground? .....	h	i
f. Do substeps listed below:		
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"><b>WARNING</b></div> <p>To prevent death or injury to personnel or damage to aircraft make sure jacks-in-place safing (safing only) is done before moving LDG GEAR control handle to UP.</p>		
(1) Do jacks-in-place safing, safing (A1-F18AC-LMM-000). (2) Set LDG GEAR control handle to UP. (3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V). (4) Does continuity exist between 61P-F001B pin 72 and aircraft ground? .....	g	ai
g. Do substeps listed below:		
(1) Set LDG GEAR control handle to DN. (2) Do jacks-in-place safing, removal (A1-F18AC-LMM-000). (3) Remove internal door CPU (A1-F18AC-LMM-010). (4) Remove internal door CPR (A1-F18AC-LMM-010). (5) Disconnect connector 12P-H008 from J1 on Landing Gear Control (A1-F18AC-130-300, WP004 00). (6) Does continuity exist between:		
12P-H008 pin 34 and aircraft ground 12P-H008 pin 32 and 61P-F001B pin 72? .....	v	m
h. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). (2) Does continuity exist between:		
Station 2: 52J-U062 pin 51 and aircraft ground Station 3: 52J-U063 pin 51 and aircraft ground Station 7: 52J-V067 pin 51 and aircraft ground Station 8: 52J-V068 pin 51 and aircraft ground? .....	v	d
i. Do substeps listed below:		
(1) Turn on electrical power (A1-F18AC-LMM-000). (2) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		

**Table 1B. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using LDG GEAR Control Handle) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<div style="border: 1px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div>		
<p>To prevent retraction of landing gear, be sure nose and main landing gear ground safety pins are installed when setting WOW Wedge under right main gear, proximity switch.</p>		
(3) Set WOW Wedge under right main gear, proximity switch.		
(4) Connect multimeter between 61P-W012A pins F and z (aircraft ground).		
(5) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds and test for 13.3/14.3vdc at 61P-W012A pin F.		
(6) Repeat substeps (4) and (5) for 61P-W012A pins G and z (aircraft ground).		
(7) Did 13.3/14.4vdc exist at 61P-W012A pins F and G? .....	j	z
j. Do substeps listed below:		
(1) Remove WOW Wedge from right main gear, proximity switch.		
(2) Turn off electrical power (A1-F18AC-LMM-000).		
(3) Open door 14R (A1-F18AC-LMM-010).		
(4) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(5) Does continuity exist between:		
Aircraft ground and 61P-W012A pin z 61P-F001B pin 30 and 61P-W012A pin F 61P-F001B pin 31 and 61P-W012A pin G? .....	k	l
k. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
61P-W012A pin z and 52P-W018 pin 99		
61P-W012A pin F and 52P-W018 pin 19		
61P-W012A pin G and 52P-W018 pin 27? .....	d	v
l. Do substeps listed below:		
Do step 2 (WP013 00)		
Do step aj .....	-	-
m. Replace Landing Gear Control (A1-F18AC-130-300, WP003 00) and do step aj .....	-	-
n. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step aj .....	-	-
o. On Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 509 on centerline pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-Z105A from Aircraft Bomb Ejector Rack BRU-32( ) on centerline pylon.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		

**Table 1B. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using LDG GEAR Control Handle) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(6) Make sure LDG GEAR control handle is DN.		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div> <p>To prevent retraction of landing gear, be sure nose and main landing gear ground safety pins are installed when setting WOW Wedge under right main gear proximity switch.</p>		
(7) Set WOW Wedge under right main gear proximity switch.		
(8) Connect multimeter between 61P-Z105A pins M and L (aircraft ground).		
(9) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds. Does 24/28vdc exist at 61P-Z105 A pin M? .....	p	f
p. Do substeps listed below:		
(1) Remove WOW Wedge from right main gear proximity switch.		
(2) Turn off electrical power (A1-F18AC-LMM-000).		
(3) In right main landing gear wheelwell, disconnect 61P-R016A from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).		
(4) Does continuity exist between 61P-Z105A pin M and 61P-R016A pin 65? .....	q	r
q. Do substeps listed below:		
(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-2167 from 61J-2167 on connector plate assembly.		
(3) Does continuity exist between 61P-Z105A pin M and 61P-2167 pin M? .....	x	u
r. Does continuity exist between 61P-Z105A pin L and aircraft ground? .....	s	ad
s. Do substeps listed below:		
(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(2) Disconnect 61P-8167 from connector plate assembly.		
(3) Does continuity exist between 61P-8167 pin L and aircraft ground? .....	v	t
t. Do substeps listed below:		
(1) Disconnect 61P-2167 from connector plate.		
(2) Does continuity exist between 61P-2167 pin L and 61P-Z105A pin L? .....	t	w
u. Do substeps listed below:		
(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(2) Disconnect 61P-8167 from 61J-2167 on connector plate assembly.		
(3) Does continuity exist between 61P-R016A pin 65 and 61P-8167 pin M? .....	v	w
v. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step aj .....	-	-
w. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step aj .....	-	-
x. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step aj .....	-	-



**Table 1B. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using LDG GEAR Control Handle) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
y. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step aj .....	-	-
z. Does 24/28vdc exist at 61P-W012A pin AA? .....	aa	n
aa. Do substeps listed below:		
(1) Remove WOW wedge from right main gear proximity switch.		
(2) Turn off electrical power (A1-F18AC-LMM-000).		
(3) Open door 10R (A1-F18AC-LMM-010).		
(4) Disconnect 52P-D092B from no. 5 circuit breaker panel assembly.		
(5) Does continuity exist between:		
Station 2: 61P-W012A pin AA and 52P-D092B pin H		
Station 3: 61P-W012A pin AA and 52P-D092B pin G		
Station 7: 61P-W012A pin AA and 52P-D092B pin F		
Station 8: 61P-W012A pin AA and 52P-D092B pin J? .....	ab	ac
ab. Do substeps below:		
(1) Remove Wing Pylon (A1-F18AC-740-300, WPM 034 00).		
(2) Does continuity exist between:		
Station 2: 52J-U062 pin 98 and 52P-D092B pin H		
Station 3: 52J-U063 pin 98 and 52P-D092B pin G		
Station 7: 52J-V067 pin 98 and 52P-D092B pin F		
Station 8: 52J-V068 pin 98 and 52P-D092B pin J? .....	v	d
ac. Isolate malfunction between No. 5 Circuit Breaker Panel Assembly wiring and 61CBD130, 61CBD131, 61CBD134, or 61CBD135 (A1-F18AC-420-300, WP026 00) and do step aj .....	-	-
ad. Do substeps listed below:		
(1) Turn on electrical power (A1-F18AC-LMM-000).		
(2) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p>To prevent retraction of landing gear, be sure nose and main landing gear ground safety pins are installed when setting WOW Wedge under right main gear proximity switch.</p>		
(3) Set WOW Wedge under right main gear proximity switch.		
(4) Connect multimeter between 61P-R016A pins 75 and 81 (aircraft ground).		
(5) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds and test for 13.3/14.3 vdc at 61P-R016A pin 75.		
(6) Repeat steps (4) and (5) for 61P-R016A pins 84 and 81 (aircraft ground).		
(7) Did 13.3/14.4 vdc exist at 61P-R016A pins 75 and 84? .....	ae	af
ae. Do substeps listed below:		

**Table 1B. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using LDG GEAR Control Handle) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(1) Remove WOW Wedge from right main gear proximity switch. (2) Turn off electrical power (A1-F18AC-LMM-000). (3) Open door 14R (A1-F18AC-LMM-010). (4) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V). (5) Does continuity exist between: Aircraft ground and 61P-R016A pin 81 61P-F001B pin 30 and 61P-R016A pin 75 61P-F001B pin 31 and 61P-R016A pin 84? .....	v	l
af. Does 24/28vdc exist at 61P-R016A pin 90? .....	ag	y
ag. Do substeps listed below:		
(1) Remove WOW Wedge from right main gear proximity switch. (2) Turn off electrical power (A1-F18AC-LMM-000). (3) Open door 10R (A1-F18AC-LMM-010). (4) Disconnect 52P-D092B from no. 5 circuit breaker panel assembly. (5) Does continuity exist between 61P-R016A pin 90 and 52P-D092B pin L? .....	v	ah
ah. Isolate malfunction between No. 5 Circuit Breaker Panel Assembly wiring and 61CBD136 (A1-F18AC-420-300, WP026 00) and do step aj .....	-	-
ai. Malfunction is caused by one of the following:		
(1) Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) ..... (2) Landing Gear Control (A1-F18AC-130-300, WP004 00). (3) Armament Computer (A1-F18AE-740-300, WP006 00). Do step aj .....	-	-
aj. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 12P-1-1008 (2) 52P-D092B (3) 61P-F001B (4) 61P-R016A (5) 61P-8167 (6) 61P-W012A (7) 61P-W097A (8) 61P-Z105A (9) 61P-2167 (10) Aircraft Wing Pylon SUU-63( ) (11) Connector Plate Assembly (12) Doors 10R, 14R, 504, 509, and 510		

**Table 1B. Ground Safety Handle Will Not Move to UNLOCKED, EMERG JETT  
(using LDG GEAR Control Handle) -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(13) Remove WOW Wedge		
(14) Set LDG GEAR Control Handle DN .....	-	-

**Table 2. GO Light On Test Set Does Not Come On, EMERG JETT**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
-	Weight On Wheels (WOW) Wedge (Locally Manufactured)	
Materials Required		
None		
NOTE		
Emergency Jettison Schematic (A1-F18AC-740-500, WP018 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below.		
Aircraft Bomb Ejector Rack BRU-32( ) Aircraft Fuselage Centerline Pylon SUU-62( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Connector Plate Assembly Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) No. 5 Circuit Breaker Panel Assembly Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) Wing Pylon Relay Box Assembly		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p>52P-D092B</p>		

Table 2. GO Light On Test Set Does Not Come On, EMERG JETT (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.</li> <li>(3) Open door 509 on centerline pylon (A1-F18AC-LMM-010).</li> <li>(4) Disconnect 61P-Z105A from Aircraft Bomb Ejector Rack BRU-32( ) on centerline pylon.</li> <li>(5) Provide ground for wing pylon 61P-W097A pin T or centerline pylon 61P-Z105A pin T.</li> <li>(6) Turn on electrical power (A1-F18AC-LMM-000).</li> <li>(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.</li> </ol>		
<p style="text-align: center;"><b>WARNING</b></p> <p>To prevent retraction of landing gear, be sure nose and main landing gear ground safety pins are installed when setting WOW Wedge under right main gear, proximity switch.</p> <ol style="list-style-type: none"> <li>(8) Set WOW Wedge under right main gear, proximity switch or if on jacks, set LDG GEAR control handle UP.</li> <li>(9) On Aircraft Wing Pylon SUU-63( ), do substeps listed below: <ol style="list-style-type: none"> <li>(a) Connect multimeter between 61P-W097A pins J and X (ground).</li> </ol> </li> </ol>		
<p style="text-align: center;"><b>CAUTION</b></p> <p>Do not hold EMERG JETT, PUSH to JETT switch for more than 2 seconds or damage to electrical equipment may occur.</p>		

Table 2. GO Light On Test Set Does Not Come On, EMERG JETT (Continued)

Procedure	No	Yes
(b) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds and test for 24/28vdc at 61P-W097A pin J.		
(c) Repeat substeps (a) and (b) for 61P-W097A pins H and X (ground).		
(d) Did 24/28vdc exist at 61P-W097A pins J and H? . . . . .	b	d
(10) On Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:		
(a) Connect multimeter between 61P-Z105A pins J and X (ground).		
(b) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds and test for 24/28vdc at 61P-Z105A pin J.		
(c) Repeat substeps (a) and (b) for 61P-Z105A pins H and X (ground).		
(d) Did 24/28vdc exist at 61P-Z105A pins J and H? . . . . .	m	d
b. Do substeps listed below on wing pylon:		
(1) Remove WOW Wedge from right main gear, proximity switch or set LDG GEAR control handle DN.		
(2) On GND PWR control panel assembly, set 3 switch to AUTO.		
(3) Turn off electrical power (A1-F18AC-LMM-000).		
(4) Open door 504 on wing pylon (A1-F18AC-LMM-010).		
(5) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V).		
(6) On 161353 THRU 161924 BEFORE F18 AFC 57, does continuity exist from:		
Aircraft ground to 61P-W097A pin X		
61P-W012A pin e to 61P-W097A pin M		
61P-W012A pin X to 61P-W097A pin J		
61P-W012A pin Y to 61P-W097A pin H		
61P-W012A pin h to 61P-W097A pin T? . . . . .	c	e
(7) On 161925 AND UP; ALSO 161353 THRU 161924 AFTER F18 AFC 57; does continuity exist from:		
Aircraft ground to 61P-W097A pin X		
61P-W012A pin e to 61P-W097A pin M		
61P-W012A pin N to 61P-W097A pin J		
61P-W012A pin P to 61P-W097A pin H		
61P-W012A pin h to 61P-W097A pin T? . . . . .	v	e
c. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step ab . . . . .	-	-
d. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step ab . . . . .	-	-

Table 2. GO Light On Test Set Does Not Come On, EMERG JETT (Continued)

Procedure	No	Yes
<p>e. Do substeps listed below:</p> <p>(1) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(2) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.</p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px 0;"> <b>WARNING</b> </div> <p>To prevent retraction of landing gear, be sure nose and main landing gear ground safety pins are installed when setting WOW Wedge under right main gear, proximity switch.</p> <p>(3) Set WOW Wedge under right main gear, proximity switch.</p> <p>(4) Connect multimeter between 61P-W012A pins F and z (ground).</p> <p>(5) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds and test for <input type="checkbox"/> 1 24/28vdc or <input type="checkbox"/> 2 13.3/14.3vdc at 61P-W012A pin F.</p> <p>(6) Repeat substeps (4) and (5) for 61P-W012A pins G and z (ground).</p> <p>(7) Did <input type="checkbox"/> 1 24/28vdc exist or <input type="checkbox"/> 2 13.3/14.3 vdc at 61P-W012A pins F and G? . . . . .</p>		
f. Are other pylons installed that have not been checked? . . . . .	f g	j h
<p>g. Do substeps listed below:</p> <p>(1) Remove WOW Wedge from right main gear, proximity switch.</p> <p>(2) On GND PWR control panel assembly, Set 3 switch to AUTO.</p> <p>(3) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(4) Open door 14R (A1-F18AC-LMM-010).</p> <p>(5) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(6) Does continuity exist from:</p> <p style="padding-left: 40px;">Aircraft ground to 61P-W012A pin z</p> <p style="padding-left: 40px;">61P-F001B pin 30 to 61P-W012A pin F</p> <p style="padding-left: 40px;">61P-F001B pin 31 to 61P-W012A pin G? . . . . .</p>		
<p>h. Do substeps listed below on wing pylon:</p> <p>(1) Remove WOW Wedge from right main gear, proximity switch.</p> <p>(2) On GND PWR control panel assembly, set 3 switch to AUTO.</p> <p>(3) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(4) Open door 504 on wing pylon (A1-F18AC-LMM-010).</p>	t	i

Table 2. GO Light On Test Set Does Not Come On, EMERG JETT (Continued)

Procedure	No	Yes
(5) Reconnect 61P-W012A to Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V).		
(6) Repeat step a for remaining pylons, if a short is found, replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and repeat Emergency Jettison Test for each pylon. Do step ab . . . . .	-	-
i. On F/A-18A do table 3 (WP013 00), on F/A-18B do table 5 (WP013 00) and do step ab . . . . .	-	-
j. Does 24/28vdc exist between 61P-W012A pins AA and z (ground)? . . . . .	x	k
k. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist from:		
Station 7: 52J-V067 pins 71 and 99 to ground		
Station 8: 52J-V068 pins 71 and 99 to ground		
Station 2: 52J-U062 pins 71 and 99 to ground		
Station 3: 52J-U063 pins 71 and 99 to ground? . . . . .	t	l
l. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step ab . . . . .	-	-
m. Do substeps listed below on centerline pylon:		
(1) Remove WOW Wedge from right main gear, proximity switch or set LDG GEAR control handle DN.		
(2) On GND PWR control panel assembly, set 3 switch to AUTO.		
(3) Turn off electrical power (A1-F18AC-LMM-000).		
(4) Disconnect 61P-R016A from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).		
(5) Does continuity exist from:		
Aircraft ground to 61P-Z106A pin X		
61P-R016A pin 65 to 61P-Z105A pin M		
61P-R016A pin 53 to 61P-Z105A pin J		
61P-R016A pin 42 to 61P-Z105A pin H		
61P-R016A pin 78 to 61P-Z106A pin T? . . . . .	o	n
n. Do substeps listed below:		
(1) Turn on electrical power (A1-F18AC-LMM-000).		
(2) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.		
(3) Set WOW Wedge under right main gear, proximity switch.		

Table 2. GO Light On Test Set Does Not Come On, EMERG JETT (Continued)

Procedure	No	Yes
(4) Connect multimeter between 61P-R016A pins 75 and 81 (ground).		
(5) On master arm control panel assembly, press and hold EMERG JETT, PUSH TO JETT switch for 2 seconds and test for <input type="checkbox"/> 1 24/28vdc or <input type="checkbox"/> 2 13.3/14.3vdc at 61P-R016A pin 75.		
(6) Repeat substeps (4) and (5) for 61P-R016A pins 84 and 81 (ground).		
(7) Did <input type="checkbox"/> 1 24/28vdc or <input type="checkbox"/> 2 13.3/14.3vdc exist at 61P-R016A pins 75 and 84? . . . . .	z	aa
o. Do substeps listed below:		
(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly.		
(3) Does continuity exist from:		
61P-Z105A pin M to 61P-Z167 pin M		
61P-Z105A pin X to 61P-Z167 pin X		
61P-Z105A pin J to 61P-Z167 pin J		
61P-Z105A pin H to 61P-Z167 pin H		
61P-Z105A pin T to 61P-Z167 pin T? . . . . .	p	q
p. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step ab . . . . .	-	-
q. Does continuity exist from:		
61P-R016A pin 65 to 61J-Z167 pin M		
61P-R016A pin 78 to 61J-Z167 pin T		
61P-R016A pin 53 to 61J-Z167 pin J		
61P-R016A pin 42 to 61J-Z167 pin H? . . . . .	r	u
r. Do substeps listed below:		
(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(2) Disconnect 61P-R167 from 61J-Z167 on connector plate assembly.		
(3) Does continuity exist from:		
61P-R016A pin 65 to 61P-R167 pin M		
61P-R016A pin 78 to 61P-R167 pin T		
61P-R016A pin 53 to 61P-R167 pin J		
61P-R016A pin 42 to 61P-R167 pin H		
Aircraft ground to 61P-R167 pin X? . . . . .	t	s
s. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step ab . . . . .	-	-
t. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step ab . . . . .	-	-



Table 2. GO Light On Test Set Does Not Come On, EMERG JETT (Continued)

Procedure	No	Yes
u. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step ab .....	-	-
v. Do substeps listed below:		
(1) Disconnect 61P-W258 from wing pylon relay box assembly 61A-W258.		
(2) Does continuity exist from:		
61P-W258 pin M to 61P-W097A pin J		
61P-W258 pin C to 61P-W097A pin H		
61P-W258 pin L to 61P-W012A pin N		
61P-W258 pin D to 61P-W012A pin P? .....	c	w
w. Repair wing pylon relay box assembly 61A-W258 (A1-F18AC-740-300, WP035 00) and do step ab .....	-	-
x. Do substeps listed below on wing pylon:		
(1) Remove WOW Wedge from right main gear, proximity switch.		
(2) On GND PWR control panel assembly, set 3 switch to AUTO.		
(3) Turn off electrical power (A1-F18AC-LMM-000).		
(4) Open door 10R (A1-F18AC-LMM-010).		
(5) Disconnect 52P-D092B from No. 5 circuit breaker panel assembly.		
(6) Does continuity exist from:		
Station 2: 52J-U062 pin 98 to 52P-D092B pin H		
Station 3: 52J-U063 pin 98 to 52P-D092B pin G		
Station 5: 61P-R016A pin 90 to 52P-D092B pin L		
Station 7: 52J-V067 pin 98 to 52P-D092B pin F		
Station 8: 52J-V068 pin 98 to 52P-D092B pin J? .....	t	y
y. Isolate malfunction between no. 5 circuit breaker panel assembly wiring and 61CBD130, 61CBD131, 61CBD134, 61CBD135 or 61CBD136 (A1-F18AC-420-300, WP026 00) and do step ab .....	-	-
z. Do substeps listed below:		
(1) Remove WOW Wedge from right main gear, proximity switch.		
(2) Turn off electrical power (A1-F18AC-LMM-000).		
(3) Open door 14R (A1-F18AC-LMM-010).		
(4) Disconnect 61P-F001B from Aramament Computer CP-1342/AYQ-9(V).		
(5) Does continuity exist from:		

Table 2. GO Light On Test Set Does Not Come On, EMERG JETT (Continued)

Procedure	No	Yes
Aircraft ground to 61P-R016A pin 81 61P-F001B pin 30 to 61P-R016A pin 75 61P-F001B pin 31 to 61P-R016A pin 84? .....	t	i
aa. Does 24/28vdc exist at 61P-R016A pin 90? .....	x	u
ab. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W097A		
(2) 61P-W012A		
(3) Door 504		
(4) Door 509 or 510		
(5) 61P-Z105A		
(6) 61P-R016A		
(7) 61P-R167		
(8) 61P-Z167		
(9) 61P-W258		
(10) 52P-D092B		
(11) 61P-F001B		
(12) Door 10R		
(13) Door 14R		
(14) Connector plate assembly		
(15) Remove WOW Wedge or set LDG GEAR control handle DN		
(16) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b>		
<div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 3. Ground Safety Handle Will Not Move to LOCKED, EMERG JETT**


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
<p>Launcher/Rack Lock/Unlock Schematic (A1-F18AC-740-500, WP020 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p>		
<p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Bomb Ejector Rack BRU-32( )</p> <p>Aircraft Fuselage Centerline Pylon SUU-62( )</p> <p>Aircraft Wing Pylon SUU-63( )</p> <p>Aircraft Wiring</p> <p>Connector Plate Assembly</p> <p>Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p> <p>No. 4 Circuit Breaker Panel Assembly</p> <p>No. 7 Circuit Breaker/Relay Panel Assembly</p> <p>Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		

Table 3. Ground Safety Handle Will Not Move to LOCKED, EMERG JETT (Continued)

Procedure	No	Yes
a. Do substeps listed below:		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p>		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.		
(3) Open door 509 on centerline pylon (A1-F18AC-LMM-010).		
(4) Disconnect 61P-Z105A from Aircraft Bomb Ejector Rack BRU-32( ) on centerline pylon.		
(5) Connect a ground at wing pylon 61P-W097A pin A or centerline pylon 61P-Z105A pin A.		
(6) Turn on electrical power (A1-F18AC-LMM-000).		
(7) On GND PWR control panel assembly set and hold 1, 2 and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.		
(8) On Aircraft Wing Pylon SUU-63( ) that failed, does 28vdc exist at 61P-W097A pin c for LOCKED? .....	b	c
(9) On Aircraft Fuselage Centerline Pylon SUU-62( ), does 28vdc exist at 61P-Z105A pin c for LOCKED? .....	m	s
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L or door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly for right wing pylons or disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly for left wing pylons.		
(4) Does continuity exist from:		
On 161353 THRU 161359, Station 7 61P-W097A pin c to 52P-D026C pin g		
On 161360 AND UP, Station 7 61P-W097A pin c to 52P-D026C pin u		
On 161353 THRU 161359, Station 8 61P-W097A pin c to 52P-D026C pin h		
On 161360 AND UP, Station 8 61P-W097A pin c to 52P-D026C pin t		
Station 2: 61P-W097A pin c to 52P-C057C pin r		
Station 3: 61P-W097A pin c to 52P-C057C pin k? .....	e	d
c. On Aircraft Wing Pylon SUU-63( ) that failed, does 28vdc exist at 61P-W097A pin R for LOCKED? .....	h	i
d. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD075 or 61CBD079 (A1-F18AC-420-300, WP025 00) or no. 7 circuit breaker/relay panel assembly wiring and 61CBC059 or 61CBC055 (A1-F18AC-420-300, WP027 00) and do step aa .....	-	-

**Table 3. Ground Safety Handle Will Not Move to LOCKED, EMERG JETT (Continued)**

Procedure	No	Yes
<p>e. Do substeps listed below:</p> <p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist from:</p> <p>On 161353 THRU 161359, Station 7 52J-V067 pin 84 or 102 to 52P-D026C pin g</p> <p>On 161360 AND UP, Station 7 52J-V067 pin 84 or 102 to 52P-D026C pin u</p> <p>On 161353 THRU 161359, Station 8 52J-V068 pin 84 or 102 to 52P-D026C pin h</p> <p>On 161360 AND UP, Station 8 52J-V068 pin 84 or 102 to 52P-D026C pin t</p> <p>Station 2: 52J-U062 pin 84 or 102 to 52P-C057C pin r</p> <p>Station 3: 52J-U063 pin 84 or 102 to 52P-C057C pin k? . . . . .</p>	f	g
f. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step aa . . . . .	-	-
g. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step aa . . . . .	-	-
<p>h. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing pylon that failed.</p> <p>(4) Does continuity exist from:</p> <p>61P-W012A pin HH to 61P-W097A pin A</p> <p>61P-W012A pin p to 61P-W097A pin S</p> <p>61P-W012A pin r to 61P-W097A pin R? . . . . .</p>	f	j
i. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step aa . . . . .	-	-
<p>j. Do substeps listed below:</p> <p>(1) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(2) Does 28vdc exist at 61P-W012A pin JJ? . . . . .</p>	k	l
<p>k. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 10L or door 10R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly for right wing pylons or disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly for left wing pylons.</p>		

Table 3. Ground Safety Handle Will Not Move to LOCKED, EMERG JETT (Continued)

Procedure	No	Yes
<p>(4) Does continuity exist from:</p> <p>On 161353 THRU 161359, Station 7 61P-W012A pin JJ to 52P-D026C pin g  On 161360 AND UP, Station 7 61P-W012A pin JJ to 52P-D026C pin u  On 161353 THRU 161359, Station 8 61P-W012A pin JJ to 52P-D026C pin h  On 161360 AND UP, right Station 8 61P-W012A pin JJ to 52P-D026C pin t  Station 2: 61P-W012A pin JJ to 52P-D057C pin r  Station 3: 61P-W012A pin JJ to 52P-D057C pin k? .....</p>	e	d
<p>l. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step aa .....</p>	-	-
<p>m. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 10R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly.</p> <p>(4) Does continuity exist from:</p> <p>On 161353 THRU 161359, 52P-D026C pin S to 61P-Z105A pin c  On 161360 AND UP, 52P-D026C <input type="checkbox"/> pin D or <input type="checkbox"/> pin h to 61P-Z105A pin c? .....</p>	n	q
<p>n. Do substeps listed below:</p> <p>(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly.</p> <p>(3) Does continuity exist from 61P-Z105A pin c to 61P-Z167 pin c? .....</p>	r	o
<p>o. Do substeps listed below:</p> <p>(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).</p> <p>(2) Disconnect 61P-R167 from 61J-Z167 on connector plate assembly.</p> <p>(3) Does continuity exist from:</p> <p>On 161353 THRU 161359, 52P-D026C pin S to 61P-R167 pin c  On 161360 AND UP, 52P-D026C <input type="checkbox"/> pin D or <input type="checkbox"/> pin h to 61P-R167 pin c? .....</p>	p	z
<p>p. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step aa .....</p>	-	-
<p>q. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD067 or 61CBD071 (A1-F18AC-420-300, WP025 00) and do step aa .....</p>	-	-
<p>r. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step aa .....</p>	-	-

**Table 3. Ground Safety Handle Will Not Move to LOCKED, EMERG JETT (Continued)**

Procedure	No	Yes
s. On Aircraft Fuselage Centerline Pylon SUU-62( ), does 28vdc exist at 61P-Z105A pin R for LOCKED? .....	t	i
t. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-R016A from right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Does 28vdc exist at 61P-R016A pin 91? .....	u	v
u. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly.		
(4) Does continuity exist from:		
On 161353 THRU 161359, 52P-D026C pin f to 61P-R016A pin 91		
On 161360 AND UP, 52P-D026C pin w to 61P-R016A pin 91? .....	p	q
v. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist from:		
61P-R016A pin 11 to 61P-Z105A pin A		
61P-R016A pin 79 to 61P-Z105A pin S		
61P-R016A pin 35 to 61P-Z105A pin R		
61P-R016A pin 25 to 61P-Z105A pin B		
61P-R016A pin 78 to 61P-Z105A pin T? .....	w	x
w. Do substeps listed below:		
(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(2) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(3) Disconnect 61P-Z167 and 61P-R167 from 61J-Z167 on connector plate assembly.		
(4) Does continuity exist from:		
61P-R016A pin 11 to 61P-R167 pin A		
61P-R016A pin 79 to 61P-R167 pin S		
61P-R016A pin 35 to 61P-R167 pin R		
61P-R016A pin 25 to 61P-R167 pin B		
61P-R016A pin 78 to 61P-R167 pin T? .....	p	y

**Table 3. Ground Safety Handle Will Not Move to LOCKED, EMERG JETT (Continued)**

Procedure	No	Yes
x. Replace right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step aa . . . . .	-	-
y. Does continuity exist from:		
61P-Z167 pin A to 61P-Z105A pin A		
61P-Z167 pin S to 61P-Z105A pin S		
61P-Z167 pin R to 61P-Z105A pin R		
61P-Z167 pin B to 61P-Z105A pin B		
61P-Z167 pin T to 61P-Z105A pin T		
61P-Z167 pin P to 61P-Z105A pin P		
61P-Z167 pin X to 61P-Z105A pin X? . . . . .	r	z
z. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step aa . . . . .	-	-
aa. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W097A		
(2) 61P-Z105A		
(3) 61P-R016A		
(4) 61P-W012A		
(5) 52P-D026C		
(6) 52P-C057C		
(7) 61P-Z167		
(8) 61P-R167		
(9) Door 10L/R		
(10) Door 504		
(11) Door 509 and door 510		
(12) Connector plate assembly		
(13) Aircraft Wing Pylon SUU-63( ) . . . . .	-	-
<b>LEGEND</b>		
<div>1</div> <div>2</div> <div>On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</div> <div>On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</div>		



Table 4. HUNG Displayed on RDDI After WOW Wedge is Installed

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
-	Weight On Wheels (WOW) Wedge (Locally Manufactured)	
Materials Required		
None		
NOTE		
Emergency Jettison Schematic (A1-F18AC-740-500, WP018 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p> <p>(1) Remove WOW Wedge from right main gear, proximity switch.</p>		

Table 4. HUNG Displayed on RDDI After WOW Wedge is Installed (Continued)

Procedure	No	Yes
(2) On GND PWR control panel assembly, set 3 switch to AUTO.		
(3) Turn off electrical power (A1-F18AC-LMM-000).		
(4) Open door 14R (A1-F18AC-LMM-010).		
(5) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(6) Does a short to ground exist from:		
61P-F001B pin 30 to pin 42 (shield) or aircraft ground		
61P-F001B pin 31 to pin 42 (shield) or aircraft ground? .....	b	c
b. On F/A-18A do table 3 (WP013 00), on F/A-18B do table 5 (WP013 00) and do step j .....	-	-
c. Do substeps listed below:		
(1) Open door 504 on wing pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V).		
(3) Does a short to ground exist for any wing pylon from:		
61P-W012A pin F to pin f (shield) or z (ground)		
61P-W012A pin G to pin f (shield) or z (ground)? .....	d	g
d. Does a short to ground exist from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) between:		
J1 pin F to pin f (shield) or z (ground)		
J1 pin G to pin f (shield) or z (ground)? .....	e	f
e. Do substep listed below:		
(1) Disconnect 61P-R016A from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).		
(2) Does a short to ground exist from:		
61P-R016A pin 75 to pin 62 (shield) or pin 81 (ground)		
61P-R016A pin 84 to pin 62 (shield) or pin 81 (ground)? .....	f	i
f. Replace shorted Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) or Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step j .....	-	-
g. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		

Table 4. HUNG Displayed on RDDI After WOW Wedge is Installed (Continued)

Procedure	No	Yes
<p>(2) Does a short to ground exist from:</p> <p>Station 2, 52J-U062 pin 19 or 27 to pin 37 (shield) or 99 (ground)</p> <p>Station 3, 52J-U063 pin 19 or 27 to pin 37 (shield) or 99 (ground)</p> <p>Station 7, 52J-V067 pin 19 or 27 to pin 37 (shield) or 99 (ground)</p> <p>Station 8, 52J-V068 pin 19 or 27 to pin 37 (shield) or 99 (ground) . . . . .</p>	h	i
h. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step j . . . . .	-	-
i. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step j . . . . .	-	-
<p>j. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 61P-R016A</p> <p>(2) 61P-F001B</p> <p>(3) 61P-W012A</p> <p>(4) Door 14R</p> <p>(5) Door 504</p> <p>(6) Aircraft Wing Pylon SUU-63( ) . . . . .</p>	-	-



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - SELECT JETTISON AND AUXILIARY RELEASE TEST

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp	Remarks
F18 AAC 778	25 Oct 84	F/A-18A and F/A-18B Weapons Control System Aircraft Bomb Ejector Rack BRU-32/A, Modification of (ECP MDA-F/A-18A-00129)	15 Jun 84	-
F/A-18 AFC 57	-	Improved Aircraft Monitor And Control (AMAC), Installation Of (ECP MDA-F/A-18A-00087)	15 Jan 87	ECP Coverage only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Select Jettison and Auxiliary Release Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>System Required Components</b>		
All system components installed.		
<b>Related Systems Required</b>		
Electrical Systems		
<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
AN/AWM-54	Aircraft Firing Circuit Test Set	
74D750020-1001	Test-Breech Adapter	
74D750037-1001	Test-Auxiliary Breech Adapter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
Component locations are shown in WP007 00. Test displays are shown on figure 1 and test equipment hookup is shown on figure 2.		
For the remainder of this test, test set refers to TS-3021/AWM-54. Test set is part of aircraft firing circuit test set AN/AWM-54.		
1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).		
<div>WARNING</div>		
All live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.		
a. Make sure electrical power is off (A1-F18AC-LMM-000).		
b. Make sure all weapons are removed from aircraft.		
c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.		

**Table 1. Select Jettison and Auxiliary Release Test (Continued)**

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER) BRU-41/BRU-42 if installed on aircraft.</p> <p>g. Make sure gun electrical signal safety switch is set to safe (extended) position, aft of door 6.</p> <p>h. Make sure gun hold-back mechanism handle is set to cleared; gun hold-back handle indicator (extended).</p> <p>i. Make sure AN/ALE-39 dispensers are removed from aircraft.</p> <p>2. TEST EQUIPMENT HOOKUP.</p> <p>a. Remove auxiliary breech cap assembly, forward and aft, chamber assemblies from breeches on Aircraft Bomb Ejector Racks BRU-32( ) or BRU-33( ) on pylons to be tested.</p> <p>b. Remove test set and W1 cable from aircraft firing circuit test set AN/AWM-54 (figure 2).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">When a failed condition is indicated during test set self test, refer to NAVAIR 16-30AWM54-1 for troubleshooting. NAVAIR 16-30AWM54-1 is contained in aircraft firing circuit test set AN/AWM-54.</p> <p>c. Connect W1P1 of W1 cable to test set, W1P2 of W1 to breech test adapter, and do test set self test.</p> <p>3. PRELIMINARY.</p>		

Table 1. Select Jettison and Auxiliary Release Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>a. On Digital Display Indicator ID-2150/ASM-612 in nose wheelwell, look at WPN SYS FAIL indicator.</p> <p>b. Close hooks on all Aircraft Bomb Ejector Racks BRU-32( ) or BRU-33( ) and set ground safety handle to LOCKED.</p> <p>c. On Aircraft Guided Missile Launcher LAU-116( ), make sure all launcher hooks are closed and SAFETY RELEASE is rotated clockwise.</p> <p>d. Open door 14R (A1-F18AC-LMM-010).</p> <p>e. On Armament/Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 24.</p>	<p>WPN SYS FAL indicator is black (not latched).</p> <p>SAFETY RELEASE INDICATOR shows GREEN - HOOKS LOCKED.</p>	<p>If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).</p> <p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If SAFETY RELEASE will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>
<div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>f. Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>g. Make sure RADAR switch on SNSR pod control box panel assembly is OFF.</p> <p>h. Apply electrical power (A1-F18AC-LMM-000).</p> <p>i. Connect ground intercommunication (A1-F18AC-LMM-000).</p>		



Table 1. Select Jettison and Auxiliary Release Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p style="text-align: center;"><b>NOTE</b></p> <p>If a malfunction occurs during this test, make sure circuit breakers shown in WP008 00 are closed.</p>		
j. On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.	Switch remains on (latched).	<p>1. If switch unlatches in 10 to 30 seconds, apply external cooling air to aircraft.</p> <p>2. If no switches remain on, do GND PWR Switching System Test (A1-F18AC-420-200, WP006 00).</p> <p>3. If one but not all switches remain on, replace GND PWR Control Panel Assembly (A1-F18AC-420-300, WP023 00).</p>
k. Install arming wires in nose and tail arming solenoids or latch nose and tail zero retention force (ZRF) arming units on stations being tested.		
l. On left and right Digital Display Indicator IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.	<p>1. LDDI and RDDI have displays and center pushbutton switch on bottom row is labeled MENU.</p> <p>2. LDDI has cautions and advisories displayed.</p>	<p>1. No display on LDDI, F/A-18A, do table 1 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 1 (A1-F18AC-745-200, WP007 00).</p> <p>2. No display on RDDI, F/A-18A, do table 2 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 2 (A1-F18AC-745-200, WP007 00).</p> <p>3. If STANDBY is displayed F/A-18A, do table 2 (A1-F18AC-745-200, WP004 00). F/A-18B, do table 2 (A1-F18AC-745-200, WP005 00).</p> <p>4. If BRT or CONT controls do not affect display, replace left or right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>

Table 1. Select Jettison and Auxiliary Release Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
m. On RDDI, press and release MENU pushbutton switch, until STORES pushbutton switch is displayed.	Menu display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
n. On RDDI, press and release STORES pushbutton switch until STORES pushbutton switch is displayed.	Stores display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
o. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
p. On 161925 AND UP; ALSO 161353 THRU 161924 AFTER F18 AFC 57; on RH console make sure release consent dummy panel is installed.		
q. On master arm control panel assembly, set MASTER switch to ARM.	SAFE is displayed on RDDI.	Do table 2 (WP010 17).
r. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.	1. Switch remains engaged. 2. ARM is displayed on RDDI.	Do table 1 (WP012 00). Do table 1 (WP010 17).
s. On RDDI, press and release 82B pushbutton switch.	82B has box with X through it.	Enter correct store code on Armanent Computer CP-1342/AYQ-9(V) (A1-F18AC-740-500, WP006 00).
t. On RDDI, press PROG pushbutton switch.	PROG 5 appears on RDDI. X may appear through PROG.	Repeat step until PROG 5 appears.
u. On RDDI, press MFUZ pushbutton switch.	Fuzing options are displayed on RDDI.	Replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).
v. On RDDI, press N/T pushbutton switch.	1. N/T is displayed on MFUZ line under PROG 5 on RDDI. 2. If displayed, X is removed from PROG on RDDI.	Replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00). Repeat steps 3t through 3v.
w. On master arm control panel assembly, press and release A/G switch.	1. 82B has X removed and RDY comes on. 2. Ground safety handle on stations with hooks closed moves to UNLOCKED.	Do table 2 (WP031 00). BRU-32, do table 1 (WP021 00). BRU-33, do table 1 (WP033 02).

Table 1. Select Jettison and Auxiliary Release Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>4. JETTISON PROCEDURE, AIR-CRAFT BOMB EJECTOR RACK BRU-33( ).</p> <p>a. Install breech test adapter in forward breech.</p> <p>b. On LH vertical console control panel assy, set SELECT JETT switch to STORES.</p> <p>c. On flaps, landing gear and stores indicator panel, press and release CTR, LI, RI, LO, or RO JETT STATION SELECT switch for station under test.</p> <p>d. On test set, set FCTN selector switch to F/C.</p>	<p>Ground safety handle on BRU-33( ) moves to UNLOCKED.</p> <p>Light comes on for station selected.</p>	<p>Do table 1 (WP033 02).</p> <p>Do table 2 (WP013 00).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If any step in the procedure below fails, do test set self test before doing troubleshooting. Adapter must be removed from breech to do self test.</p>		
<p>e. On test set, press and hold TEST switch.</p> <p>f. On LH vertical console control panel assembly, press and release SELECT JETT switch JETT pushbutton.</p> <p>g. Open bomb rack suspension hooks on BRU-33 being tested. (Arming solenoids) Pull on arming wires.</p> <p>h. Release SELECT JETT switch JETT pushbutton.</p> <p>i. On test set, release TEST switch.</p> <p>j. On test set, set FCTN switch to S/V.</p>	<p>GO light on test set comes on and H + ULK appears on RDDI.</p> <p>Arming wires release from arming solenoids or ZRF arming units open (unlatch).</p> <p>GO light on test set goes off.</p>	<p>1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black, if not, read on nose wheelwell DDI or on cockpit DDI and record maintenance codes. If maintenance code 072, 073, 076, 077, 078, or 083 is displayed, do table 1 (WP010 00).</p> <p>2. Do table 3 (WP021 01).</p> <p>Do table 1 (WP031 00).</p> <p>Replace test set.</p>

**Table 1. Select Jettison and Auxiliary Release Test (Continued)**

Procedure	Normal Indication	Remedy for Abnormal Indication
k. On test set, press and release TEST switch.	GO light on test set comes on and remains on until TEST switch is released.	Do table 3 (WP033 02).
l. Remove breech test adapter from forward breech and install in aft breech. Repeat steps 4f through 4k on aft breech and continue with next step.	Same as steps 4d through 4i.	Same as steps 4d through 4i.
m. On flaps, landing gear and stores indicator panel, press and release CTR, LI, RI, LO, or RO JETT STATION SELECT switch for station under test.	Light goes off for station selected.	Do table 2 (WP013 00).
n. On LH vertical console control panel assembly, set SELECT JETT switch to SAFE.		
o. Repeat step 4 on remaining ejector unit racks installed or do SHUT-DOWN.		
5. JETTISON PROCEDURE, AIRCRAFT BOMB EJECTOR RACK BRU-32( ).		
a. Install breech test adapter in forward breech.		
b. On LH vertical console control panel assy, set SELECT JETT switch to RACK LCHR.	Ground safety handle on BRU-32( ) moves to UNLOCKED.	Do table 1 (WP021 00).
c. On flaps, landing gear and stores indicator panel, press and release CTR, LI, RI, LO, or RO JETT STATION SELECT switch for station under test.	Light comes on for station selected.	Do table 2 (WP013 00).
d. On test set, set FCTN selector switch to F/C.		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If any step in the procedure below fails, do test set self test before doing troubleshooting. Adapter must be removed from breech to do self test.</p>		
e. On test set, press and hold TEST switch.		

Table 1. Select Jettison and Auxiliary Release Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
f. On LH vertical console control panel assembly, press and release SELECT JETT switch JETT pushbutton.	GO light on test set comes on and H + ULK appears on RDDI.	1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black, if not, read on nose wheelwell DDI or on cockpit DDI and record maintenance codes. If maintenance code 072, 073, 076, 077, 078 or 083 is displayed, do table 1 (WP010 00).
g. Open bomb rack suspension hooks on BRU-32 being tested. (Arming solenoids) Pull on arming wires.	Arming wires release from arming solenoids or ZRF arming units open (unlatch).	2. Do table 2 (WP021 00).
h. Release SELECT JETT switch JETT pushbutton.		Do table 4 (WP021 01).
i. On test set, release TEST switch.	GO light on test set goes off.	Replace test set.
j. On test set, set FCTN switch to S/V.		
k. On test set, press and release TEST switch.	GO light on test set comes on and remains on until TEST switch is released.	Do table 2 (WP021 01).
l. Remove breech test adapter from forward breech and install in aft breech. Repeat steps 5d through 5f and 5h through 5l on aft breech, then do step 6 or do SHUT-DOWN.	Same as steps 5d through 5i.	Same as steps 5d through 5i.
6. AUXILIARY RELEASE, AIR-CRAFT BOMB EJECTOR RACK BRU-32( ).		
<p style="text-align: center;"><b>NOTE</b></p> <p>Before attempting auxiliary release, H + ULK must be displayed on DDI for station under test.</p>		
a. Remove breech test adapter from aft breech and disconnect from W1P2 or W1 cable.		
b. Connect W1P2 of W1 cable to breech test auxiliary adapter, and do self test.		

**Table 1. Select Jettison and Auxiliary Release Test (Continued)**

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>c. Install breech test auxiliary adapter in auxiliary breech.</p> <p>d. On ECM control panel assembly, set AUX REL switch to ENABLE.</p> <p>e. On test set, set FCTN switch to F/C.</p> <p>f. On test set, press and hold TEST switch.</p> <p>g. On LH vertical console control panel assembly, press and release SELECT JETT switch JETT pushbutton.</p> <p>h. On test set, release TEST switch.</p> <p>i. On test set, set FCTN switch to S/V.</p> <p>j. On test set, press and release TEST switch.</p> <p>k. On ECM control panel assembly, set AUX REL switch to NORM.</p> <p>l. On flaps, landing gear and stores indicator panel, press and release CTR, LI, RI, LO, or RO JETT STATION SELECT switch for station under test.</p> <p>m. On LH vertical console control panel assembly, set SELECT JETT switch to SAFE.</p> <p>n. Remove breech test auxiliary adapter from auxiliary breech and disconnect from W1P2 of cable W1.</p> <p>o. Connect breech test adapter to W1P2 of cable W1 and do self test.</p> <p>p. Repeat steps 5 and 6 on remaining bomb ejector racks on pylons to be tested or do SHUTDOWN.</p>	<p>GO light on test set comes on.</p> <p>GO light on test set goes off.</p> <p>GO light on test set comes on and remains on until TEST switch is released.</p> <p>Light goes off for station selected.</p>	<p>1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black, if not, read on nose wheelwell DDI or on cockpit DDI and record maintenance codes. If maintenance code 072, 073, 076, 077, 078 or 083 is displayed, do table 1 (WP010 00).</p> <p>2. Do table 1 (WP021 01).</p> <p>Replace test set.</p> <p>Do table 2 (WP021 01).</p> <p>Do table 1 (WP011 00).</p>

**Table 1. Select Jettison and Auxiliary Release Test (Continued)**

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>7. SHUTDOWN.</p> <p>a. On 161925 AND UP; ALSO 161353 THRU 161924 AFTER F18 AFC 57; RH console on AMAC CONTROL, set left and right RELEASE CONSENT switches to OFF.</p> <p>b. On master arm control panel assembly, set MASTER switch to SAFE.</p> <p>c. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.</p> <p>d. On LDDI and RDDI, set power switch to OFF.</p> <p>e. On GND PWR control panel assembly, set 3, 2, and 1 switches to AUTO.</p> <p>f. Remove electrical power (A1-F18AC-LMM-000).</p> <p>g. Disconnect proximity switch control (A1-F18AC-LMM-000).</p> <p>h. Disconnect ground intercommunications (A1-F18AC-LMM-000).</p> <p>i. Close door 14R (A1-F18AC-LMM-010).</p> <p>j. Remove breech test adapter from breech.</p> <p>k. Disconnect cable from breech test adapter and test set and stow.</p> <p>l. Install auxiliary breech cap assembly and chamber assemblies in breeches of Aircraft Bomb Ejector Racks BRU-32( ) or BRU-33( ).</p>	<p>1. ARMAMENT OVERRIDE switch disengages.</p> <p>2. SAFE is displayed on RDDI.</p> <p>1. Ground safety handle on BRU-32( ) moves to LOCKED.</p> <p>2. Ground safety handle on BRU-33( ) moves to LOCKED.</p>	<p>Do table 3 (WP010 17).</p> <p>Do table 2 (WP010 17).</p> <p>Do table 1 (WP021 00).</p> <p>Do table 1 (WP033 02).</p>

## 1. ILLUSTRATED PARTS BREAKDOWN.

2. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.



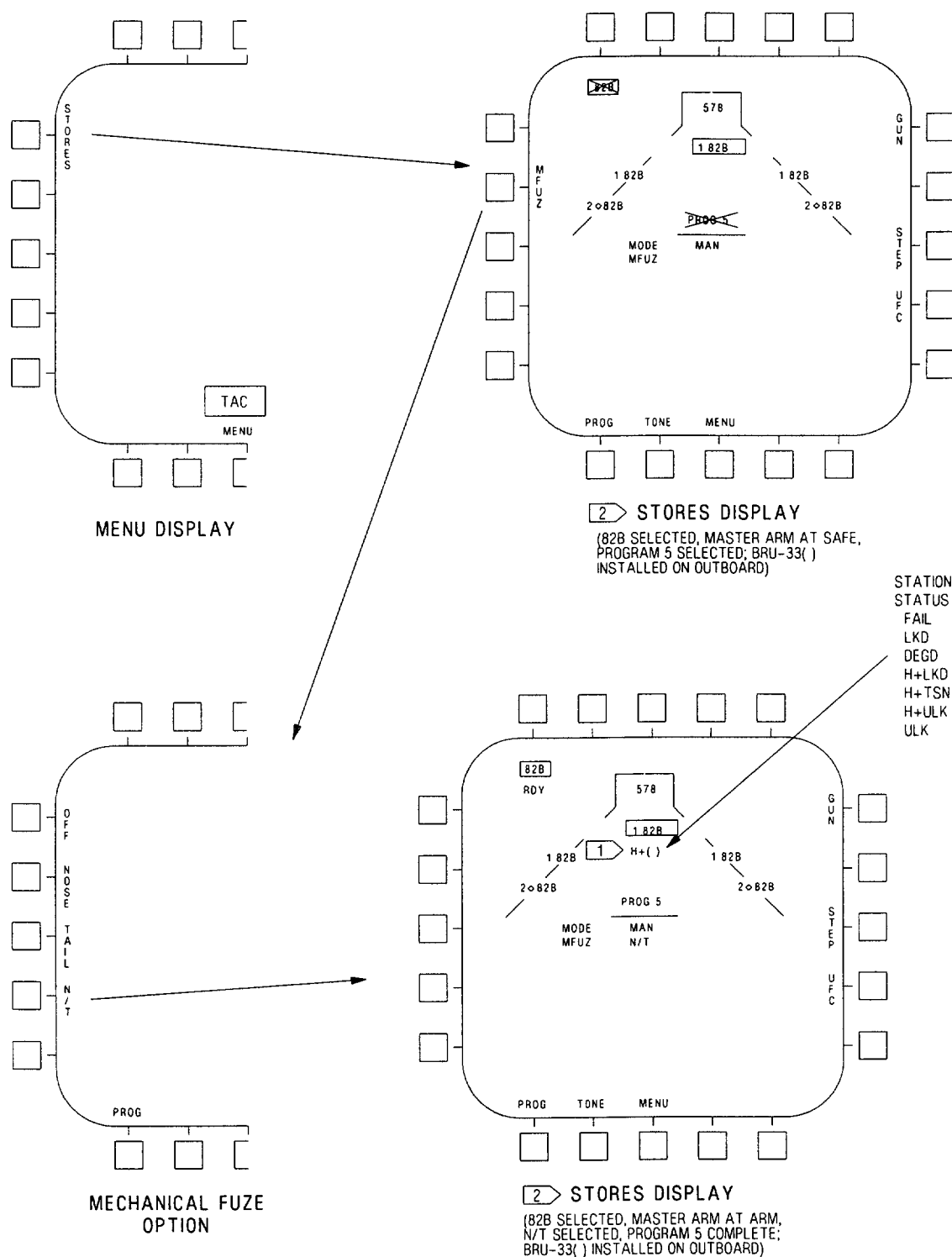


Figure 1. Test Displays (Sheet 1)

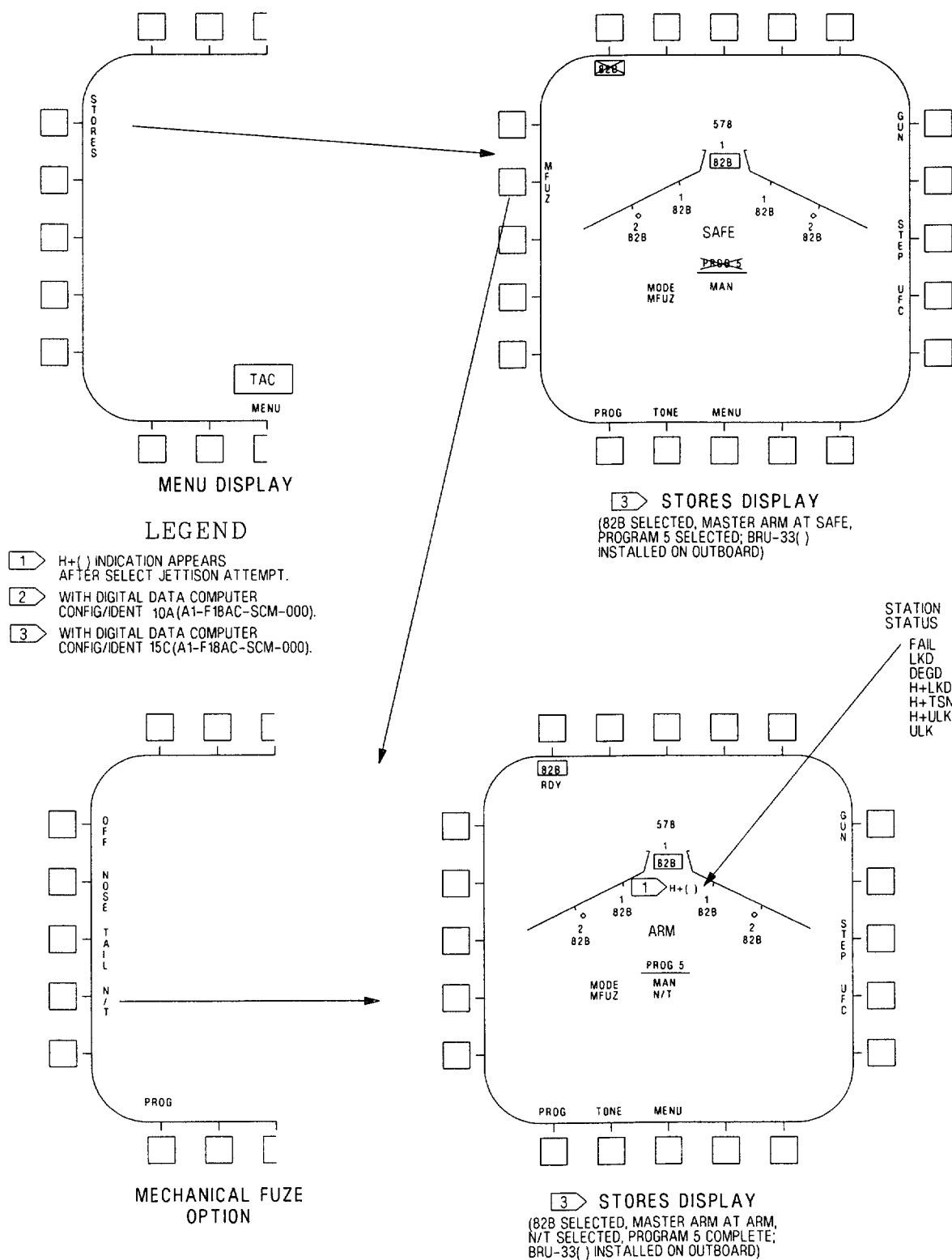


Figure 1. Test Displays (Sheet 2)

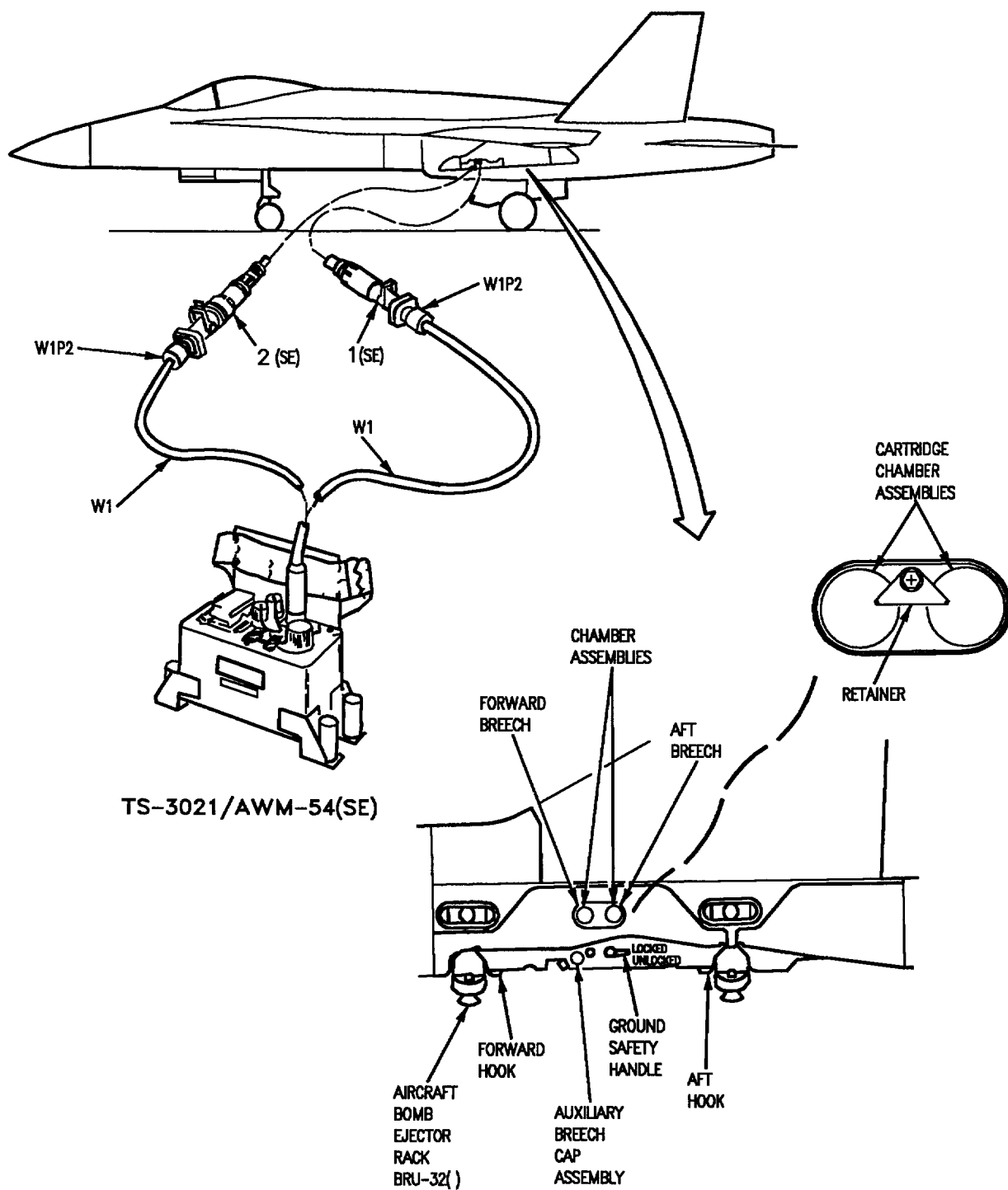


Figure 2. Test Equipment Hookup (Sheet 1)

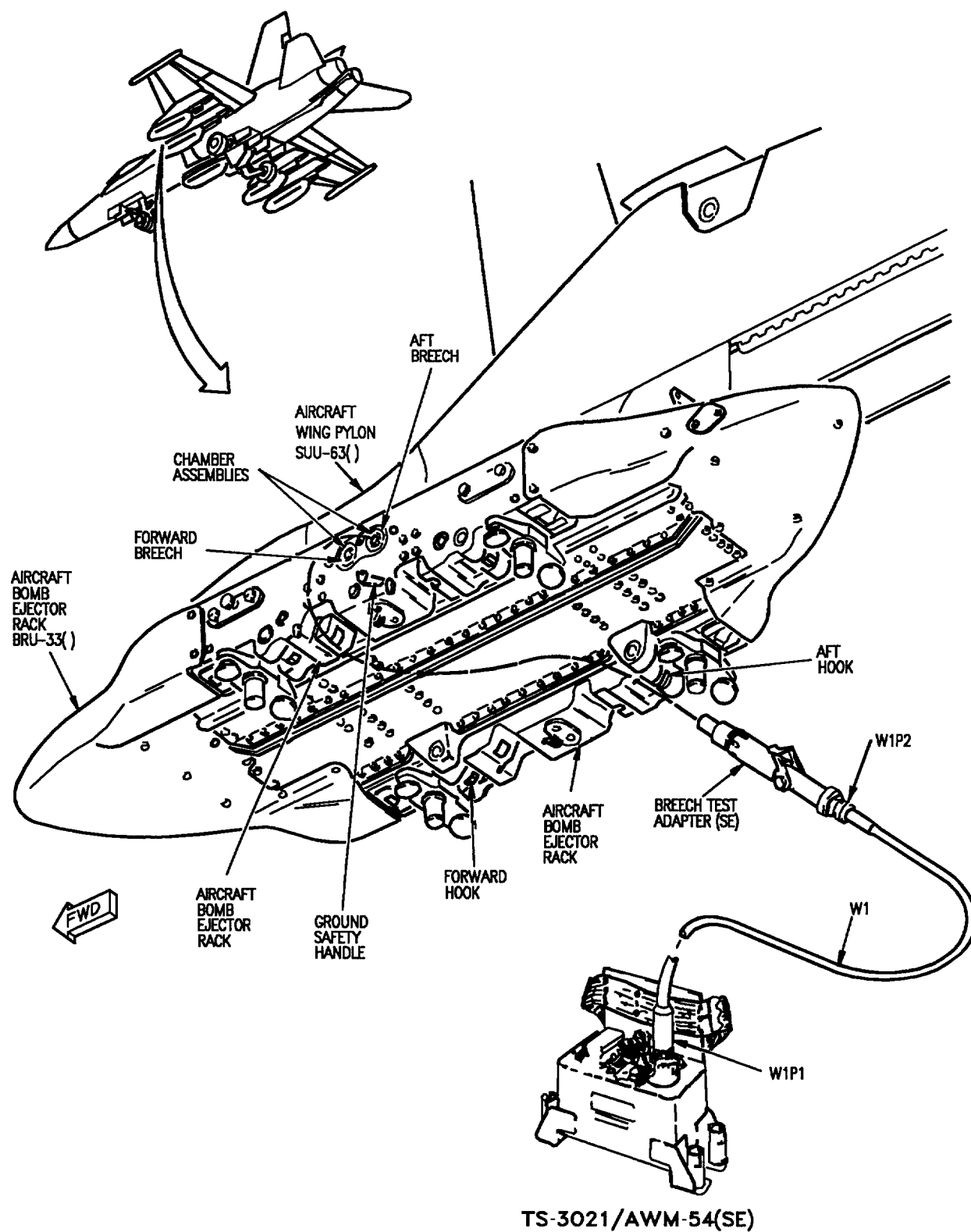


Figure 2. Test Equipment Hookup (Sheet 2)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			

		TEST EQUIPMENT HOOKUP .....									
1	74D750020-1001	.							1	*	PAOZZ
		(SUPPORT EQUIPMENT)									
	1328AS525	.							1	*	PAOZZ
2	74D750037-1001	.							1		PAOZZ
		(76301) (SUPPORT EQUIPMENT)									

\*ALTERNATE OR EQUIVALENT PARTS (WP002 00)



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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**TROUBLESHOOTING - SELECT JETTISON AND AUXILIARY RELEASE TEST, PART 1**  
**SUSPENSION AND RELEASE MECHANISMS**

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**Reference Material**

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

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Table 2A .....	24

**Record of Applicable Technical Directives**

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 57	-	Improved Aircraft Monitor and Control (AMAC), Installation of (ECP MDA-F/A-18A-00087	15 Jan 87	ECP coverage only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**Table 1. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Launcher/Rack Lock/Unlock Schematic (A1-F18AC-740-500, WP020 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-32( ) Aircraft Fuselage Centerline Pylon SUU-62( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Connector Plate Assembly Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) No. 4 Circuit Breaker Panel Assembly No. 7 Circuit Breaker/Relay Panel Assembly Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div>NOTE</div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol>		



**Table 1. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
a. Do substeps listed below:		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p>		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.		
(3) Open door 509 on centerline pylon (A1-F18AC-LMM-010).		
(4) Disconnect 61P-Z105A from Aircraft Bomb Ejector Rack BRU-32( ) on centerline pylon.		
<p style="text-align: center;"><b>WARNING</b></p> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(5) Connect proximity switch control (A1-F18AC-LMM-000).		
(6) Connect a ground at wing pylon 61P-W097A pin A or centerline pylon 61P-Z105A pin A.		
(7) Turn on electrical power (A1-F18AC-LMM-000).		
(8) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.		
(9) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(10) On master arm control panel assembly, press and release A/G switch, or on LH vertical console control panel assembly, set SELECT JETT switch to RACK/LCHR.		
(11) On 161925 AND UP; ALSO 161353 THRU 161924 AFTER F18 AFC 57; on RH console, make sure release consent dummy panel is installed.		
(12) On Aircraft Wing Pylon SUU-63( ) that failed, does 28vdc exist at 61P-W097A pin c for UNLOCKED or LOCKED? .....	b	c
(13) On Aircraft Fuselage Centerline Pylon SUU-62( ), does 28vdc exist at 61P-Z105A pin c for UNLOCKED or LOCKED? .....	n	t
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L or 10R (A1-F18AC-LMM-010).		

**Table 1. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly for right wing pylons or disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly for left wing pylons.		
(4) Does continuity exist from:		
On 161353 THRU 161369, station 7 61P-W097A pin c to 52P-D026C pin g		
On 161360 AND UP, station 7 61P-W097A pin c to 52P-D026C pin u		
On 161353 THRU 161359, station 8 61P-W097A pin c to 52P-D026C pin h		
On 161360 AND UP, station 8 61P-W097A pin c to 52P-D026C pin t		
station 2 61P-W097A pin c to 52P-C057C pin r		
station 3 61P-W097A pin c to 52P-C057C pin k? . . . . .	e	d
c. On Aircraft Wing Pylon SUU-63( ) that failed, does 28vdc exist at 61P-W097A pin B for UNLOCKED? . . . . .	i	h
d. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD075 or 61CBD079 (A1-F18AC-420-300, WP025 00) or no. 7 circuit breaker/relay panel assembly wiring and 61CBC059 or 61CBC055 (A1-F18AC-420-300, WP027 00) and do step ac . . . . .	-	-
e. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist from:		
On 161353 THRU 161359, station 7 52J-V067 pin 84 or 102 to 52P-D026C pin g		
On 161360 AND UP, station 7 52J-V067 pin 84 or 102 to 52P-D026C pin u		
On 161353 THRU 161359, station 8 52J-V068 pin 84 or 102 to 52P-D026C pin h		
On 161360 AND UP, station 8 52J-V068 pin 84 or 102 to 52P-D026C pin t		
station 2 52J-U062 pin 84 or 102 to 52P-C057C pin r		
station 3 52J-U063 pin 84 or 102 to 52P-C057C pin k? . . . . .	f	g
f. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step ac . . . . .	-	-
g. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step ac . . . . .	-	-
h. Deselect A/G switch or set SELECT JETT switch to SAFE. Does 28vdc exist at 61P-W097A pin R for LOCKED? . . . . .	k	l
i. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		

**Table 1. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(5) Does 28vdc exist at 61P-W012A pin JJ? .....	j	m
j. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L or door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly for right wing pylons or disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly for left wing pylons.		
(4) Does continuity exist from:		
On 161353 THRU 161359, station 7 61P-W012A pin JJ to 52P-D026C pin g		
On 161360 AND UP, station 7 61P-W012A pin JJ to 52P-D026C pin u		
On 161353 THRU 161359, station 8 61P-W012A pin JJ to 52P-D026C pin h		
On 161360 AND UP, station 8 61P-W012A pin JJ to 52P-D026C pin t		
station 2 61P-W012A pin JJ to 52P-C057C pin r		
station 3 61P-W012A pin JJ to 52P-C057C pin k? .....	e	d
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.		
(4) Does continuity exist from:		
61P-W012A pin HH to 61P-W097A pin A		
61P-W012A pin p to 61P-W097A pin S		
61P-W012A pin r to 61P-W097A pin R		
61P-W012A pin m to 61P-W097A pin B		
61P-W012A pin h to 61P-W097A pin T? .....	g	m
l. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step ac .....	-	-
m. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step ac .....	-	-
n. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		

**Table 1. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly.		
(4) Does continuity exist from:		
On 161353 THRU 161359, 52P-D026C pin S to 61P-Z105A pin c		
On 161360 AND UP, 52P-D026C pin D to 61P-Z105A pin c? .....	o	r
o. Do substeps listed below:		
(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Z167 from 61P-Z167 on connector plate assembly.		
(3) Does continuity exist from 61P-Z105A pin c to 61P-Z167 pin c? .....	s	p
p. Do substeps listed below:		
(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(2) Disconnect 61P-R167 from 61J-Z167 on connector plate assembly.		
(3) Does continuity exist from:		
On 161353 THRU 161359, 52P-D026C pin S to 61P-R167 pin c		
On 161360 AND UP, 52P-D026C pin D to 61P-R167 pin c? .....	q	ab
q. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step ac .....	-	-
r. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD067 or 61CBD071 (A1-F18AC-420-300, WP025 00) and do step ac .....	-	-
s. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step ac .....	-	-
t. On Aircraft Fuselage Centerline Pylon SUU-62( ), does 28vdc exist at 61P-Z105A pin B for UNLOCKED? .....	u	v
u. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-R016A from right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Does 28vdc exist at 61P-R016A pin 91? .....	w	x
v. Set A/G switch or SELECT JETT switch to SAFE. Does 28vdc exist at 61P-Z105A pin R for LOCKED on centerline pylon? .....	x	l

**Table 1. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>w. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 10R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly.</p> <p>(4) Does continuity exist from:</p> <p>On 161353 THRU 161359, 52P-D026C pin f to 61P-R016A pin 91</p> <p>On 161360 AND UP, 52P-D026C pin w to 61P-R016A pin 91? . . . . .</p>	q	r
<p>x. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Does continuity exist from:</p> <p>61P-R016A pin 11 to 61P-Z105A pin A</p> <p>61P-R016A pin 79 to 61P-Z105A pin S</p> <p>61P-R016A pin 35 to 61P-Z105A pin R</p> <p>61P-R016A pin 25 to 61P-Z105A pin B</p> <p>61P-R016A pin 78 to 61P-Z105A pin T? . . . . .</p>	y	z
<p>y. Do substeps listed below:</p> <p>(1) Open door 510 centerline pylon (A1-F18AC-LMM-010).</p> <p>(2) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).</p> <p>(3) Disconnect 61P-Z167 and 61P-R167 from 61J-Z167 on connector plate assembly.</p> <p>(4) Does continuity exist from:</p> <p>61P-R016A pin 11 to 61P-R167 pin A</p> <p>61P-R016A pin 79 to 61P-R167 pin S</p> <p>61P-R016A pin 35 to 61P-R167 pin R</p> <p>61P-R016A pin 25 to 61P-R167 pin B</p> <p>61P-R016A pin 78 to 61P-R167 pin T? . . . . .</p>	q	aa
<p>z. Replace right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step ac . . . . .</p>	-	-

**Table 1. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
aa. Does continuity exist from:  61P-Z167 pin A to 61P-Z105A pin A 61P-Z167 pin S to 61P-Z105A pin S 61P-Z167 pin R to 61P-Z105A pin R 61P-Z167 pin B to 61P-Z105A pin B 61P-Z167 pin T to 61P-Z105A pin T 61P-Z167 pin P to 61P-Z105A pin P 61P-Z167 pin X to 61P-Z105A pin X? .....	s	ab
ab. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step ac .....	-	-
ac. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:  (1) 61P-W097A  (2) 61P-Z105A  (3) 61P-R016A  (4) 61P-W012A  (5) 52P-D026C  (6) 52P-C057C  (7) 61P-Z167  (8) 61P-R167  (9) Door 504  (10) Door 509 and 510  (11) Door 10L/R  (12) Connector plate assembly  (13) Aircraft Wing Pylon SUU-63( ) .....	-	-

**Table 1A. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>  None		
<b>NOTE</b>  Launcher/Rack Lock/Unlock Schematic (A1-F18AC-740-500, WP020 00) may be used as an aid when doing this procedure.  For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below: <ul style="list-style-type: none"> <li>Aircraft Bomb Ejector Rack BRU-32( )</li> <li>Aircraft Fuselage Centerline Pylon SUU-62( )</li> <li>Aircraft Wing Pylon SUU-63( )</li> <li>Aircraft Wiring</li> <li>Connector Plate Assembly</li> <li>No. 4 Circuit Breaker Panel Assembly</li> <li>No. 7 Circuit Breaker/Relay Panel Assembly</li> <li>Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</li> <li>Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</li> </ul>		
Procedure	No	Yes
<b>NOTE</b>  The question used in logic tree “Does continuity exist” means to test for the items listed below: <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps below: <div style="margin-left: 20px;">             (1) Turn electrical power off (A1-F18AC-LMM-000).           </div>		
(2) Is troubleshooting being done on station 5? .....	b	n

**Table 1A. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
b. Do substeps below:  (1) On wing pylon, disconnect 61P-W097A from J1 on BRU-32( ) (failed station).  (2) Turn electrical power on (A1-F18AC-LMM-000).  (3) Does 28vdc exist between 61P-W097A pin c and 61P-W097A pin X (ground)? .....	c	u
c. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Does continuity exist between 61P-W097A pin X and aircraft ground? .....	d	g
d. Do substeps below:  (1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (2) Does continuity exist between:  Station 2: 52J-U062 pin 71 and aircraft ground Station 3: 52J-U063 pin 71 and aircraft ground Station 7: 52J-V067 pin 71 and aircraft ground Station 8: 52J-V068 pin 71 and aircraft ground? .....	e	f
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ak .....	-	-
f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ak .....	-	-
g. Is troubleshooting being done on station 7 or 8? .....	h	k
h. Do substeps below:  (1) Open door 10L (A1-F18AC-LMM-010).  (2) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.  (3) Does continuity exist between:  Station 2: 61P-W097A pin c and 52P-C057C pin r Station 3: 61P-W097A pin c and 52P-C057C pin k? .....	i	j
i. Do substeps below:  (1) Remove Aircraft Wing Pylon SUU-63( ) (failed station) (A1-F18AC-740-300, WP034 00).		



**Table 1A. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(2) Does continuity exist between:</p> <p>Station 2: 52P-C057C pin r and 52J-U062 pin 84  Station 3: 52P-C057C pin k and 52J-U063 pin 84? . . . . .</p>	e	f
<p>j. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and ARM STA 2 circuit breaker (61CBC055) or ARM STA 3 circuit breaker (61CBC059) (A1-F18AC-420-300, WP027 00). Do step ak . . . . .</p>	-	-
<p>k. Do substeps below:</p> <p>(1) Open door 10R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-D026C from no. 4 circuit breaker panel.</p> <p>(3) Does continuity exist between:</p> <p>Station 7: 61P-W097A pin c and 52P-D026C pin u  Station 8: 61P-W097A pin c and 52P-D026C pin t? . . . . .</p>	l	m
<p>l. Do substeps below:</p> <p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist between:</p> <p>Station 7: 52P-D026C pin a and 52J-V067 pin 84  Station 8: 52P-D026C pin t and 52J-V068 pin 84? . . . . .</p>	e	f
<p>m. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and ARM STA 7 circuit breaker (61CBD075) or ARM STA 8 circuit breaker (61CBD079) (A1-F18AC-420-300, WP025 00). Do step ak . . . . .</p>	-	-
<p>n. Do substeps below:</p> <p>(1) On aircraft fuselage centerline pylon, open door 509 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-Z105A from BRU-32( ).</p> <p>(3) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(4) Does 28vdc exist between 61P-Z105A pin c and 61P-Z105A pin X (ground)? . . . . .</p>	o	u
<p>o. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p>		

**Table 1A. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(2) Open door 10R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-D026C from no. 4 circuit breaker panel.</p> <p>(4) Does continuity exist between:</p> <p>61P-Z105A pin c and 52P-D026C pin H 61P-Z105A pin X and aircraft ground? . . . . .</p>	p	t
<p>p. Do substeps below:</p> <p>(1) On aircraft fuselage centerline pylon, open door 510 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly.</p> <p>(3) On SUU-62( ), does continuity exist between:</p> <p>61P-Z167 pin c and 61P-Z105A pin c 61P-Z167 pin X and 61P-Z105A pin X? . . . . .</p>	q	r
<p>q. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00). Do step ak . . . . .</p>	-	-
<p>r. Do substeps below:</p> <p>(1) Remove Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).</p> <p>(2) Remove Connector Plate Assembly (A1-F18AC-740-300, WP036 00).</p> <p>(3) Does continuity exist between:</p> <p>61P-R167 pin c and 52P-D026C pin H 61P-R167 pin X and aircraft ground? . . . . .</p>	e	s
<p>s. Replace Connector Plate Assembly (A1-F18AC-740-300, WP036 00). Do step ak . . . . .</p>	-	-
<p>t. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and ARM STA 5 circuit breaker (61CBD067) (A1-F18AC-420-300, WP025 00). Do step ak . . . . .</p>	-	-
<p>u. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) On armament computer set ARMAMENT switches to 24 for stations 2, 3, 5, 7 and 8.</p>		

**Table 1A. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p>To prevent injury to personnel do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(4) Connect proximity switch control (A1-F18AC-LMM-000).		
(5) On aircraft wing pylon connect a jumper wire between 61P-W097A pin A and aircraft ground or, on aircraft fuselage centerline pylon connect a jumper wire between 61P-Z105A pin A and aircraft ground.		
(6) Turn electrical power on (A1-F18AC-LMM-000).		
(7) On GND PWR control panel assembly, set and hold 1, 2 and 3 switch to B ON for 3 seconds.		
(8) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(9) If troubleshooting being done on station 2 or 8, make sure release consent dummy panel is installed.		
(10) On master arm control panel assembly, press and release A/G switch (A/G selected) or, on LH vertical console control panel, set SELECT JETT switch to RACK/LCHR.		
(11) Is troubleshooting being done on station 5? .....	v	ab
v. Does 28vdc (unlock command BRU-32) exist between 61P-W097A pin B and aircraft ground? .....	w	y
w. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On aircraft wing pylon (failed station), open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-W012A pin m and 61P-W097A pin B? .....	f	x
x. Malfunction is caused by one of the items below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		

**Table 1A. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
Do step ak .....	-	-
y. Do substeps below:		
(1) On master arm control panel assembly, press and release A/G switch again (A/G deselected) or, on LH vertical console control panel set SELECT JETT switch to SAFE.		
(2) On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.		
(3) Does 28vdc (lock command BRU-32) exist between 61P-W097A pin R and aircraft ground? .....	z	aa
z. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On aircraft wing pylon (failed station), open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-W012A pin r and 61P-W097A pin R? .....	f	x
aa. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00). Do step ak .....	-	-
ab. Does 28vdc (unlock command BRU-32) exist between 61P-Z105A pin B and aircraft ground? .....	ac	ag
ac. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(3) Does continuity exist between 61P-R016A pin 25 and 61P-Z105A pin B? .....	ad	af
ad. Do substeps below:		
(1) On aircraft fuselage centerline pylon, open door 510 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly.		
(3) On aircraft fuselage centerline pylon, does continuity exist between 61P-Z167 pin B and 61P-Z105A pin B? .....	q	ae

**Table 1A. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
ae. Do substeps below:		
(1) Remove Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).		
(2) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(3) Does continuity exist between 61P-R167 pin B and 61P-R016A pin 25? . . . . .	e	s
af. Malfunction is caused by one of the items below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Right Fuselage Command Signal Encoder-Decoder (A1-F18AC-740-300, WP008 00).		
Do step ak . . . . .	-	-
ag. Do substeps below:		
(1) On master arm control panel assembly, press and release A/G switch again (A/G deselected) or, on LH vertical console control panel set SELECT JETT switch to SAFE.		
(2) On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.		
(3) Does 28vdc (lock command BRU-32) exist between 61P-Z105A pin R and aircraft ground? . . . . .	ah	as
ah. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(3) Does continuity exist between 61P-Z105A pin R and 61P-R016A pin 35? . . . . .	ai	af
ai. Do substeps below:		
(1) On aircraft fuselage centerline pylon, open door 510 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly.		
(3) On aircraft fuselage centerline pylon, does continuity exist between 61P-Z167 pin R and 61P-Z105A pin R? . . . . .	q	aj

**Table 1A. Ground Safety Handle Does Not Move to UNLOCKED or LOCKED -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
aj. Do substeps below:		
(1) Remove Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).		
(2) Remove Connector Plate Assembly (A1-F18AC-740-300, WP036 00).		
(3) Does continuity exist between 61P-R167 pin R and 61P-R016A pin 35? . . . . .	e	s
ak. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Aircraft Fuselage Centerline Pylon SUU-62( )		
(2) Aircraft Wing Pylon SUU-63( )		
(3) Connector plate assembly		
(4) Jumper wire 61P-W097A, 61P-Z105A		
(5) Proximity switch control		
(6) 52P-C057C		
(7) 52P-D026C		
(8) 61P-R016A		
(9) 61P-W012A		
(10) 61P-W097A		
(11) 61P-Z105A		
(12) 61P-Z167		
(13) Doors 10L, 10R, 14R, 504, 509, 510 . . . . .	-	-

**Table 2. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Master Arm Schematic and Selective Jettison/Auxiliary Release Schematic (A1-F18AC-740-500, WP017 00 and WP019 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-32( ) Aircraft Fuselage Centerline Pylon SUU-62( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Connector Plate Assembly Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Release Consent Dummy Panel Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) Wing Pylon Relay Box Assembly		
Procedure	No	Yes
NOTE		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
NOTE		
This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.		
(1) Turn off electrical power (A1-F18AC-LMM-000).		

**Table 2. GO Light On Test Set Does Not Come On, Select Jett - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(2) Disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.</p> <p>(3) Open door 509 on centerline pylon (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-Z105A from Aircraft Bomb Ejector Rack BRU-32( ) on centerline pylon.</p> <p>(5) Connect ground at 61P-W097A pins A and T or 61P-Z105A pins A and T.</p> <p>(6) Open door 14R (A1-F18AC-LMM-010).</p> <p>(7) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 24.</p>		
<div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>(8) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(9) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(10) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.</p> <p>(11) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(12) On master arm control panel assembly, press and release A/G switch.</p> <p>(13) On master arm control panel, set MASTER switch to ARM.</p> <p>(14) On 161925 AND UP; ALSO 161353 THRU 161924 AFTER F18 AFC 57; on RH console, make sure release consent dummy panel is installed.</p> <p>(15) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(16) On flaps, landing gear and stores indicator panel, press and release CTR, LI, RI, LO or RO JETT STATION SELECT switch for station under test.</p> <p>(17) On LH vertical console control panel, set SELECT JETT switch to RACK/LCHR.</p> <p>(18) On Aircraft Wing Pylon SUU-63/A, do substeps listed below:</p> <p style="padding-left: 40px;">(a) Connect multimeter between 61P-W097A pins J and X (ground).</p>		



**Table 2. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(b) On LH vertical console control panel assembly, press and release SELECT JETT switch, JETT pushbutton and test for 28vdc at 61P-W097A pin J.		
(c) Repeat substeps (a) and (b) for 61P-W097A pin H and X (ground).		
(d) On 161353 THRU 161924 BEFORE F18 AFC 57, did 28vdc exist at 61P-W097A pins J and H? .....	b	e
(e) On 161925 AND UP ALSO 161353 THRU 161924 AFTER F18 AFC 57; did 28vdc exist at 61P-W097A pins J and H? .....	o	e
(19) On Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:		
(a) Connect multimeter between 61P-Z105A pins J and X (ground).		
(b) On LH vertical console control panel assembly, press and release SELECT JETT switch, JETT pushbutton and test for 28vdc at 61P-Z105A pin J.		
(c) Repeat substeps (a) and (b) for 61P-Z105A pins H and X (ground).		
(d) Did 28vdc exist at 61P-Z105A pins J and H? .....	h	g
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.		
(4) Does continuity exist from:		
Aircraft ground to 61P-W097A pin X		
61P-W012A pin X to 61P-W097A pin J		
61P-W012A pin Y to 61P-W097A pin H		
61P-W012A pin HH to 61P-W097A pin A		
61P-W012A pin h to 61P-W097A pin T? .....	c	d
c. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step aa .....	-	-
d. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step aa .....	-	-
e. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		

**Table 2. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(2) Does continuity exist from:</p> <p>station 7 52J-V067 pin 71 and ground</p> <p>station 8 52J-V068 pin 71 and ground</p> <p>station 2 52J-U062 pin 71 and ground</p> <p>station 3 52J-U063 pin 71 and ground? .....</p>	f	g
f. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step aa .....	-	-
g. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step aa .....	-	-
h. Do substeps listed below:		
<p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-R016A from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).</p> <p>(3) Does continuity exist from:</p> <p>Aircraft ground to 61P-Z105A pin X</p> <p>61P-R016A pin 53 to 61P-Z105A pin J</p> <p>61P-R016A pin 42 to 61P-Z105A pin H</p> <p>61P-R016A pin 11 to 61P-Z105A pin A</p> <p>61P-R016A pin 78 to 61P-Z105A pin T? .....</p>	i	n
i. Do substeps listed below:		
<p>(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly.</p> <p>(3) Does continuity exist from:</p> <p>61P-Z105A pin X to 61P-Z167 pin X</p> <p>61P-Z105A pin J to 61P-Z167 pin J</p> <p>61P-Z105A pin H to 61P-Z167 pin H</p> <p>61P-Z105A pin A to 61P-Z167 pin A</p> <p>61P-Z105A pin T to 61P-Z167 pin T? .....</p>	j	k
j. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step aa .....	-	-
k. Does continuity exist from:		
<p>Aircraft ground to 61J-Z167 pin X</p> <p>61P-R016A pin 53 to 61J-Z167 pin J</p> <p>61P-R016A pin 42 to 61J-Z167 pin H</p> <p>61P-R016A pin 11 to 61J-Z167 pin A</p> <p>61P-R016A pin 78 to 61J-Z167 pin T? .....</p>	l	g

**Table 2. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
l. Do substeps listed below:  (1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).  (2) Disconnect 61P-R167 from 61J-Z167 on connector plate assembly.  (3) Does continuity exist from: Aircraft ground to 61P-R167 pin X 61P-R016A pin 53 to 61P-R167 pin J 61P-R016A pin 42 to 61P-R167 pin H 61P-R016A pin 11 to 61P-R167 pin A 61P-R016A pin 78 to 61P-R167 pin T? .....	f	m
m. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step aa .....	-	-
n. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step aa .....	-	-
o. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Disconnect 61P-W258 from wing pylon relay box assembly.  (3) Turn on electrical power (A1-F18AC-LMM-000).  (4) Connect multimeter between 61P-W258 pins A and B (ground).  (5) Does 28vdc exist at 61P-W258 pin A? .....	p	t
p. Is this an outboard station? .....	q	v
q. On inboard stations, do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (3) Set ARMAMENT OVERRIDE switch to OVERRIDE.  (4) Turn on electrical power (A1-F18AC-LMM-000).  (5) Does 28vdc exist at: station 3 52J-U063 pin 49 station 7 52J-V067 pin 49? .....	r	c

**Table 2. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>r. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove master arm control panel assembly (A1-F18AC-740-300, WP013 00).</p> <p>(3) Does continuity exist from:</p> <p style="padding-left: 40px;">station 3 52J-U063 pin 49 to 52P-H075 pin 30</p> <p style="padding-left: 40px;">station 7 52J-V067 pin 49 to 52P-H075 pin 30? .....</p>	f	s
s. Do table 1, WP010 17 and do step aa .....	-	-
<p>t. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing pylon that failed.</p> <p>(4) Does continuity exist from:</p> <p style="padding-left: 40px;">Aircraft ground to 61P-W097A pin X</p> <p style="padding-left: 40px;">61P-W258 pin M to 61P-W097A pin J</p> <p style="padding-left: 40px;">61P-W258 pin C to 61P-W097A pin H</p> <p style="padding-left: 40px;">61P-W258 pin K to 61P-W012A pin X</p> <p style="padding-left: 40px;">61P-W258 pin P to 61P-W012A pin Y</p> <p style="padding-left: 40px;">61P-W097A pin A to 61P-W012A pin HH</p> <p style="padding-left: 40px;">61P-W097A pin T to 61P-W012A pin h? .....</p>	c	u
u. Repair wing pylon relay box assembly (A1-F18AC-740-300, WP035 00) and do step aa .....	-	-
<p>v. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) Set ARMAMENT OVERRIDE switch to OVERRIDE.</p>		

**Table 2. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(5) Does 28vdc exist at:</p> <p>station 2 52J-U062 pin 49</p> <p>station 8 52J-V068 pin 49? .....</p>	w	c
<p>w. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove release consent dummy panel (A1-F18AC-740-300, WP003 00).</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) Set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(5) Does 28vdc exist at 61P-J022C pin 9? .....</p>	x	y
<p>x. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove master arm control panel assembly (A1-F18AC-740-300, WP013 00).</p> <p>(3) Does continuity exist from 61P-J022C pin 9 to 52P-H075 pin 30? .....</p>	f	s
<p>y. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Does continuity exist from:</p> <p>station 2 52J-U062 pin 49 to 61P-J022C pin 4</p> <p>station 8 52J-V068 pin 49 to 61P-J022C pin 2? .....</p>	f	z
<p>z. Replace release consent dummy panel (A1-F18AC-740-300, WP003 00) and do step aa .....</p>	-	-
<p>aa. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 61P-W097A</p> <p>(2) 61P-Z105A</p> <p>(3) 61P-R016A</p> <p>(4) 61P-W012A</p>		

**Table 2. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(5) 61P-Z167		
(6) 61P-R167		
(7) 61P-W258		
(8) Door 14R		
(9) Door 504		
(10) Door 509 and 510		
(11) Connector plate assembly		
(12) Release Consent dummy panel		
(13) Disconnect proximity switch control		
(14) Aircraft Wing Pylon SUU-63( ) . . . . .	-	-

**Table 2A. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Master Arm Schematic (A1-F18AC-740-500, WP017 00) and Selective Jettison/Auxiliary Release Schematic (A1-F18AC-740-500, WP019 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	

**Table 2A. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

<p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Bomb Ejector Rack BRU-32( )  Aircraft Fuselage Centerline Pylon SUU-62( )  Aircraft Wing Pylon SUU-63( )  Aircraft Wiring  Armament Computer CP-1342/AYQ-9(V)  Connector Plate Assembly  Release Consent Dummy Panel  Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)  Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  Wing Pylon Relay Box Assembly</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) On armament computer set ARMAMENT switches to 24 for stations 2, 3, 5, 7, and 8.</p> <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px 0;"> <b>WARNING</b> </div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p> <p>(4) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(5) If failure is on stations 2, 3, 7 or 8, do substeps below:</p> <p>(a) Disconnect 61P-W097A from J1 on BRU-32( ) (failed station).</p>		

**Table 2A. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(b) Connect jumper wires between:</p> <p>61P-W097A pin A and aircraft ground 61P-W097A pin T and aircraft ground</p> <p>If failure is on station 5, do substeps below:</p> <p>(a) On SUU-62( ), open door 509 (A1-F18AC-LMM-010).</p> <p>(b) Disconnect 61P-Z105A from J1 on BRU-32( ).</p> <p>(c) Connect jumper wires between:</p> <p>61P-Z105A pin A and aircraft ground 61P-Z105A pin T and aircraft ground</p> <p>(6) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(7) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(8) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(9) On master arm control panel assembly, press and release A/G switch.</p> <p>(10) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(11) On stations 2 and 8, make sure release consent dummy panel is installed.</p> <p>(12) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(13) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best displays.</p> <p>(14) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until stores pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Does RDDI display ARM? .....</p>		
b. Do table 1, WP010 17. Do step al .....	-	-



**Table 2A. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
c. Do substeps below:		
(1) On flaps, landing gear and stores indicator panel, press and release CTR, LI, RI, LO or RO JETT STATION SELECT switch for station under test.		
(2) On LH vertical console control panel, set SELECT JETT switch to RACK/LCHR.		
(3) On LH vertical console control panel, press and release SELECT JETT switch JETT pushbutton.		
(4) Does RDDI display H+ULK in wingform for station under test? .....	d	e
d. Do table 1, WP027 21. Do step al .....	-	-
e. Is troubleshooting being done on station 5? .....	f	ab
f. Do substeps below:		
(1) Connect multimeter between 61P-W097A pins J and X (ground).		
<b>NOTE</b>		
Fire 1 voltage (28vdc) exists at 61P-W097A pin J for approximately 25 milliseconds after JETT pushbutton pressed.		
(2) On LH vertical console control panel, press and release SELECT JETT switch JETT pushbutton.		
(3) Does 28vdc (fire 1) exist at 61P-W097A pin J? .....	i	g
g. Do substeps below:		
(1) Connect multimeter between 61P-W097A pins H and X (ground).		
<b>NOTE</b>		
Fire 2 voltage (28vdc) exists at 61P-W097A pin H for approximately 25 milliseconds after JETT pushbutton pressed.		
(2) On LH vertical console control panel, press and release SELECT JETT switch JETT pushbutton.		
(3) Does 28vdc (fire 2) exist at 61P-W097A pin H? .....	i	h
h. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00). Do step al .....	-	-

**Table 2A. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>i. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-W258 from wing pylon relay box.</p> <p>(3) Does continuity exist between:</p> <p>61P-W097A pin J and 61P-W258 pin M 61P-W097A pin H and 61P-W258 pin C? . . . . .</p>	j	k
j. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step al . . .	-	-
k. Does continuity exist between 61P-W097A pin x and aircraft ground? . . . . .	l	n
<p>l. Do substeps below:</p> <p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist between:</p> <p>Station 2: 52J-U062 pin 71 and aircraft ground Station 3: 52J-U063 pin 71 and aircraft ground Station 7: 52J-V067 pin 71 and aircraft ground Station 8: 52J-V068 pin 71 and aircraft ground? . . . . .</p>	m	j
m. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step al . . . . .	-	-
<p>n. Do substeps below:</p> <p>(1) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(2) On master arm control panel assembly set MASTER switch to ARM.</p> <p>(3) Set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(4) If troubleshooting is being done on station 2 and 8, make sure release consent dummy panel is installed.</p> <p>(5) Does 28vdc exist between 61P-W258 pin A and 61P-W258 pin B (ground)? . . . . .</p>	o	w
<p>o. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Does continuity exist between 61P-W258 pin B and aircraft ground? . . . . .</p>	p	q

**Table 2A. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
p. Do substeps below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (failed station) (A1-F18AC-740-300, WP034 00).		
(2) On Aircraft Wing Pylon SUU-63( ), does continuity exist between 52P-W018 pin 65 and 61P-W258 pin B? .....	j	m
q. Do substeps below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) On Aircraft Wing Pylon SUU-63( ), does continuity exist between 52P-W018 pin 49 and 61P-W258 pin A? .....	j	r
r. Is troubleshooting being done on stations 3 or 7? .....	s	m
s. Do substeps below:		
(1) Remove Release Consent Dummy Panel (A1-F18AC-740-300, WP003 00).		
(2) Remove Master Arm Control Panel Assembly (A1-F18AC-740-300, WP013 00).		
(3) Is troubleshooting being done on station 2? .....	t	v
t. Does continuity exist between 61P-J022C pin 9 and 52P-H075 pin 30? .....	m	aj
u. Replace Release Consent Dummy Panel (A1-F18AC-740-300, WP003 00). Do step al .....	-	-
v. Does continuity exist between 61P-J022C pin 9 and 52P-H075 pin 30? .....	m	ak
w. Do substeps below:		
(1) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(2) On proximity switch control, make sure NOSE GEAR and MAIN GEAR switches are set to WT OFF WHLS and GEAR UPLOCK switch is set to UP.		
(3) On master arm control panel assembly, press and release A/G switch (A/G selected).		
(4) On flaps, landing gear and stores indicator panel, press and release CTR, LI, RI, LO or RO JETT STATION SELECT switch for station under test.		
(5) On LH vertical console control panel, set SELECT JETT switch to RACK/LCHR.		

**Table 2A. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(6) Connect multimeter between 61P-W258 pin K and aircraft ground.		
<b>NOTE</b>		
Fire 1 voltage (28vdc) exists at 61P-W258 pin K for approximately 25 milliseconds after JETT pushbutton pressed.		
(7) On LH vertical console control panel, press and release SELECT JETT switch JETT pushbutton.		
(8) Does 28vdc (fire 1) exist between 61P-W258 pin K and aircraft ground? .....	z	x
x. Do substeps below:		
(1) Connect multimeter between 61P-W258 pin P and aircraft ground.		
<b>NOTE</b>		
Fire 2 voltage (28vdc) exists at 61P-W258 pin P for approximately 25 milliseconds after JETT pushbutton pressed.		
(2) On LH vertical console control panel, press and release SELECT JETT switch JETT pushbutton.		
(3) Does 28vdc (fire 2) exist between 61P-W258 pin P and aircraft ground? .....	z	y
y. Repair Wing Pylon Relay Box Assembly (A1-F18AC-740-300, WP034 00). Do step al .....	-	-
z. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On aircraft wing pylon (failed station), open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012A from J1 on encoder-decoder.		
(4) Does continuity exist between:		
61P-W012A pin X and 61P-W258 pin K		
61P-W012A pin Y and 61P-W258 pin P		
61P-W012A pin a and 61P-W258 pin N		
61P-W012A pin v and 61P-W258 pin R? .....	j	aa
aa. Malfunction is caused by one of the items below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00)		

**Table 2A. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP010 00).</p> <p>Do step al .....</p> <p>ab. Do substeps below:</p> <p>(1) Connect multimeter between 61P-Z105A pin J and 61P-Z105A pin X (ground).</p>	-	-
<p><b>NOTE</b></p> <p>Fire 1 voltage (28vdc) exists at 61P-Z105A pin J for approximately 25 milliseconds after JETT pushbutton pressed.</p>		
<p>(2) On LH vertical console control panel, press and release SELECT JETT switch JETT pushbutton.</p> <p>(3) Does 28vdc exist between 61P-Z105A pin J and 61P-Z105A pin X? .....</p>	ad	ac
<p>ac. Do substeps below:</p> <p>(1) Connect multimeter between 61P-Z105A pin H and 61P-Z105A pin X (ground).</p>		
<p><b>NOTE</b></p> <p>Fire 2 voltage (28vdc) exist at 61P-Z105A pin H for approximately 25 milliseconds after JETT pushbutton pressed.</p>		
<p>(2) On LH vertical console control panel, press and release SELECT JETT switch JETT pushbutton.</p> <p>(3) Does 28vdc exist between 61P-Z105A pin H and 61P-Z105A pin X? .....</p>	ad	h
<p>ad. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder decoder.</p> <p>(3) Does continuity exist between:</p> <p>61P-Z105A pin J and 61P-R016A pin 53</p> <p>61P-Z105A pin H and 61P-R016A pin 42</p> <p>61P-Z105A pin X and aircraft ground? .....</p>	ae	ai
<p>ae. Do substeps below:</p> <p>(1) On centerline pylon, open door 510 (A1-F18AC-LMM-010).</p>		

**Table 2A. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) Disconnect 61P-Z167 from 61J-Z167.		
(3) On centerline pylon, does continuity exist between:		
61P-Z167 pin J and 61P-Z105A pin J		
61P-Z167 pin H and 61P-Z105A pin H		
61P-Z167 pin X and 61P-Z105A pin X? .....	af	ag
af. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00). Do step al .....	-	-
ag. Do substeps below:		
(1) Remove Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).		
(2) Remove Connector Plate Assembly (A1-F18AC-740-300, WP036 00).		
(3) Does continuity exist between:		
61P-R167 pin J and 61P-R016A pin 53		
61P-R167 pin H and 61P-R016A pin 42		
61P-R167 pin X and aircraft ground? .....	m	ah
ah. Replace Connector Plate Assembly (A1-F18AC-740-300, WP036 00). Do step al .....	-	-
ai. Malfunction is caused by one of the items below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step al .....	-	-
aj. Does continuity exist between 52J-V068 pin 49 and 61P-J022C pin 2? .....	ak	u
ak. Does continuity exist between 52J-U062 pin 49 and 61P-J022C pin 4? .....	al	u
al. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Aircraft Fuselage Centerline Pylon SUU-62( )		
(2) Aircraft Wing Pylon SUU-63( )		
(3) Release Consent Dummy Panel		

**Table 2A. GO Light On Test Set Does Not Come On, Select Jett -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(4) Connector Plate Assembly		
(5) Remove jumper wires (61P-W097A pin A and T, 61P-Z105A pin A and T)		
(6) Master Arm Control Panel Assembly		
(7) Proximity Switch Control		
(8) 61P-R016A		
(9) 61P-W012A		
(10) 61P-W097A		
(11) 61P-W258		
(12) 61P-Z105A		
(13) 61P-Z167		
(14) Doors 14R, 504, 509, 510 .....	-	-





## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - SELECT JETTISON AND AUXILIARY RELEASE TEST, PART 2

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Stores Management System and Suspension and Release	
Mechanisms Locator .....	WP007 00


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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 57	-	Improved Aircraft Monitor And Control (AMAC), Installation Of (ECP MDA-F/A-18A-00087)	15 Jan 87	ECP coverage only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**Table 1. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Master Arm Schematic and Selective Jettison/Auxiliary Release Schematic (A1-F18AC-740-500, WP017 00 and WP019 00) may be used as an aid when doing this procedure.		
For component locations, refer to WP007 00.		
Malfunction is caused by one of the items listed below.		
Aircraft Bomb Ejector Rack BRU-32( ) Aircraft Fuselage Centerline Pylon SUU-62( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Release Consent Dummy Panel Connector Plate Assembly ECM Control Panel Assembly Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) Wing Pylon Relay Box Assembly		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		

**Table 1. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(4) On ECM control panel assembly, set AUX REL switch to ENABLE.</p> <p>(5) Does continuity exist from 61P-F001B pin 91 and aircraft ground? . . . . .</p>	b	e
<p>b. Do substeps listed below:</p> <p>(1) Remove ECM Control Panel Assembly (A1-F18AC-760-300, WP007 00).</p> <p>(2) Disconnect 52P-H087 from ECM Control Panel Assembly.</p> <p>(3) Does continuity exist from 52J-H087 pins 35 and 13? . . . . .</p>	c	d
<p>c. Repair AUX REL switch or replace ECM Control Panel Assembly (A1-F18AC-760-300, WP007 00) and do step ae . . . . .</p>	-	-
<p>d. Isolate aircraft wiring between 52P-H087 pin 35 and 61P-F001B pin 91 or between 52P-H087 pin 13 and aircraft ground and do step ae . . . . .</p>	-	-
<p>e. Do substeps listed below:</p> <p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.</p> <p>(3) Open door 509 on centerline pylon (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-Z105A from Aircraft Bomb Ejector Rack BRU-32( ) on centerline pylon.</p> <p>(5) Connect a ground at 61P-W097A pins A and T or 61P-Z105A pins A and T.</p> <p>(6) Open door 14R (A1-F18AC-LMM-010).</p> <p>(7) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 24.</p>		

**Table 1. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(8) Connect proximity switch control (A1-F18AC-LMM-000).		
(9) Turn on electrical power (A1-F18AC-LMM-000).		
(10) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.		
(11) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UNLOCK to UP.		
(12) On master arm control panel assembly, press and release A/G switch.		
(13) On master arm control panel assembly, set MASTER switch to ARM.		
(14) On 161925 AND UP; ALSO 161353 THRU 161924 AFTER F18 AFC 57; On RH console make sure release consent dummy panel is installed.		
(15) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(16) On flaps, landing gear and stores indicator panel, press and release CTR, LI, RI, LO or RO JETT STATION SELECT switch for station under test.		
(17) On LH vertical console control panel, set SELECT JETT switch to RACK/LCHR.		
(18) Press and release SELECT JETT switch JETT pushbutton, HUNG or H+LKD displayed on RDDI.		
(19) On ECM control panel assembly, set AUX REL switch to ENABLE.		
(20) On Aircraft Wing Pylon SUU-63( ), do substeps listed below.		
(a) Connect multimeter between 61P-W097A pins F and X (ground).		
(b) On 161353 THRU 161924 BEFORE F18 AFC 57, on LH vertical console control panel assembly, press and release SELECT JETT switch JETT pushbutton again. Did 28vdc exist at 61P-W097A pin F? .....	f	i
(c) On 161925 AND UP; ALSO 161353 THRU 161924 AFTER F18 AFC 57; on LH vertical console control panel assembly, press and release SELECT JETT switch JETTpushbutton again. Did 28vdc exist at 61P-W097A pin F? .....	s	i

**Table 1. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(21) On Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:</p> <p>(a) Connect multimeter between 61P-Z105A pins F and X (ground).</p> <p>(b) On LH vertical console control panel assembly, press and release SELECT JETT switch JETT pushbutton again. Did 28vdc exist at 61P-Z105A pin F? .....</p> <p>f. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.</p> <p>(4) Does continuity exist from:</p> <p>Aircraft ground to 61P-W097A pin X 61P-W012A pin a to 61P-W097A pin F? .....</p> <p>g. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step ae .....</p> <p>h. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step ae .....</p> <p>i. Do substeps listed below:</p> <p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist from:</p> <p>right inboard 52J-V067 pin 71 to ground right outboard 52J-V068 pin 71 to ground left outboard 52J-U062 pin 71 to ground left inboard 52J-U063 pin 71 to ground? .....</p> <p>j. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step ae .....</p> <p>k. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step ae .....</p> <p>l. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>	<p>l</p> <p>g</p> <p>-</p> <p>-</p> <p>-</p> <p>j</p> <p>-</p> <p>-</p>	<p>k</p> <p>h</p> <p>-</p> <p>-</p> <p>-</p> <p>k</p> <p>-</p> <p>-</p>

**Table 1. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(2) Disconnect 61P-R016A from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).</p> <p>(3) Does continuity exist from:</p> <p style="padding-left: 40px;">Aircraft ground to 61P-Z105A pin X 61P-R016A pin 63 to 61P-Z105A pin F? .....</p>	m	r
<p>m. Do substeps listed below:</p> <p>(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly.</p> <p>(3) Does continuity exist from:</p> <p style="padding-left: 40px;">61P-Z105A pin F to 61P-Z167 pin F? .....</p>	n	o
<p>n. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step ae .....</p>	-	-
<p>o. Does continuity exist from:</p> <p style="padding-left: 40px;">Aircraft ground to 61J-Z167 pin X 61P-R016A pin 63 to 61J-Z167 pin F? .....</p>	p	k
<p>p. Do substeps listed below:</p> <p>(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).</p> <p>(2) Disconnect 61P-R167 from 61J-Z167 on connector plate assembly.</p> <p>(3) Does continuity exist from:</p> <p style="padding-left: 40px;">Aircraft ground to 61P-R167 pin X 61P-R016A pin 63 to 61P-R167 pin F? .....</p>	j	q
<p>q. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step ae .....</p>	-	-
<p>r. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step ae .....</p>	-	-
<p>s. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

**Table 1. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(2) Disconnect 61P-W258 from wing pylon relay box assembly.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Connect multimeter between 61P-W258 pins A and B (ground).		
(5) Does 28vdc exist at 61P-W258 pin A? .....	t	x
t. Is this an outboard station? .....	u	z
u. On inboard stations do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Set ARMAMENT OVERRIDE switch to OVERRIDE.		
(5) Does 28vdc exist at:		
left inboard 52J-U063 pin 49		
right inboard 52J-V067 pin 49? .....	v	g
v. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove master arm control panel assembly (A1-F18AC-740-300, WP013 00).		
(3) Does continuity exist from:		
left inboard 52J-U063 pin 49 to 52P-H075 pin 30		
right inboard 52J-V067 pin 49 to 52P-H075 pin 30? .....	j	w
w. Do table 1, WP010 17 and do step ae .....	-	-
x. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing pylon that failed.		

**Table 1. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(4) Does continuity exist from:</p> <p>Aircraft ground to 61P-W097A pin X  61P-W258 pin S to 61P-W097A pin F  61P-W258 pin F to 61P-W012A pin a? .....</p> <p>y. Repair wing pylon relay box assembly (A1-F18AC-740-300, WP035 00) and do step ae .....</p> <p>z. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) Set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(5) Does 28vdc exist at:</p> <p>left outboard 52J-U062 pin 49  right outboard 52J-V068 pin 49? .....</p> <p>aa. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove release consent dummy panel (A1-F18AC-740-300, WP003 00).</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) Set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(5) Does 28vdc exist at 61P-J022C pin 9? .....</p> <p>ab. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove master arm control panel assembly (A1-F18AC-740-300, WP013 00).</p> <p>(3) Does continuity exist from 61P-J022C pin 9 to 52P-H075 pin 30? .....</p>	<p>g</p> <p>-</p> <p>-</p> <p>aa</p> <p>ab</p> <p>j</p>	<p>y</p> <p>-</p> <p>g</p> <p>ac</p> <p>s</p>



**Table 1. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
ac. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist from:		
left outboard 52J-U062 pin 49 to 61P-J022C pin 4		
right outboard 52J-V068 pin 49 to 61P-J022C pin 2? . . . . .	j	ad
ad. Replace release consent dummy panel (A1-F18AC-740-300, WP003 00) and do step ae . . . . .	-	-
ae. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W097A		
(2) 61P-Z105A		
(3) 61P-R016A		
(4) 61P-W012A		
(5) 61P-Z167		
(6) 61P-R167		
(7) 61P-F001B		
(8) 61P-W258		
(9) 52P-H087		
(10) Door 14R		
(11) Door 504		
(12) Door 509 and 510		
(13) Connector plate assembly		
(14) Master arm control panel assembly		
(15) Release consent dummy panel		
(16) Disconnect proximity switch control		
(17) ECM Control Panel Assembly		
(18) Aircraft Wing Pylon SUU-63( ) . . . . .	-	-

**Table 1A. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Master Arm Schematic (A1-F18AC-740-500, WP017 00) and Selective Jettison/Auxiliary Release Schematic (A1-F18AC-740-500, WP019 00) may be used as an aid when doing this procedure.		
Memory inspect data used in this procedure is provided in WP010 19.		
For component locations, refer to WP007 00.		
Malfunction is caused by one of the items listed below.		
Aircraft Bomb Ejector Rack BRU-32 ( ) Aircraft Fuselage Centerline Pylon SUU-62( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Connector Plate Assembly ECM Control Panel Assembly Release Consent Dummy Panel Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) Wing Pylon Relay Box Assembly		
Procedure	No	Yes
NOTE		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps below:		
(1) On ECM control panel assembly set AUX REL switch to enable.		

**Table 1A. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(2) Memory inspect auxiliary release enable (INPNMO+2/BIT 7) by doing substeps below:</p> <p>(a) Using unit address 06, memory inspect address for ref code INPNMO+2 (table 2, WP043 00).</p> <p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p> <p>(b) On RDDI, does DATA readout display XXX4XX? .....</p> <p>b. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 91 and aircraft ground? .....</p> <p>c. Do substeps below:</p> <p>(1) Remove ECM Control Panel Assembly (A1-F18AC-760-300, WP007 00).</p> <p>(2) Does continuity exist between:</p> <p>52P-H087 pin 35 and 61P-F001B pin 91 52P-H087 pin 13 and aircraft ground? .....</p> <p>d. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step an .....</p> <p>e. Replace ECM Control Panel Assembly (A1-F18AC-760-300, WP007 00). Do step an .....</p> <p>f. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) Do step an .....</p> <p>g. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p>	<p>b</p> <p>c</p> <p>d</p> <p>-</p> <p>-</p> <p>-</p>	<p>g</p> <p>f</p> <p>e</p> <p>-</p> <p>-</p> <p>-</p>

**Table 1A. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(3) On armament computer set ARMAMENT switches to 24 for stations 2, 3, 5, 7 and 8.</p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: fit-content;"> <b>WARNING</b> </div> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p> <p>(4) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(5) If troubleshooting being done on station 2, 3, 7 or 8, do substeps below:</p> <p style="padding-left: 40px;">(a) On failed station, disconnect 61P-W097A from J1 on BRU-32( ).</p> <p style="padding-left: 40px;">(b) Connect jumper wires between:</p> <p style="padding-left: 80px;">61P-W097A pin A and aircraft ground.</p> <p style="padding-left: 80px;">61P-W097A pin T and aircraft ground.</p> <p>(6) If troubleshooting being done on station 5, do substeps below:</p> <p style="padding-left: 40px;">(a) On SUU-62( ), open door 509 (A1-F18AC-LMM-010).</p> <p style="padding-left: 40px;">(b) Disconnect 61P-Z105A from J1 on BRU-32( ).</p> <p style="padding-left: 40px;">(c) Connect jumper wires between:</p> <p style="padding-left: 80px;">61P-Z105A pin A and aircraft ground.</p> <p style="padding-left: 80px;">61P-Z105A pin T and aircraft ground.</p> <p>(7) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(8) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(9) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(10) On master arm control panel assembly, press and release A/G switch (A/G selected).</p> <p>(11) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(12) If troubleshooting being done on stations 2 or 8, make sure release consent dummy panel is installed.</p> <p>(13) On ECM control panel assembly, set AUX REL switch to NORM.</p>		

**Table 1A. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(14) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(15) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best display.		
(16) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Does RDDI display ARM? .....	h	i
h. Do troubleshooting for No ARM Display (Ground Maintenance), table 1, WP010 17). Do step an .....	-	-
i. Do substeps below:		
(1) On flaps, landing gear and stores indicator panel, press and release CTR, LI, RI, LO or RO JETT STATION SELECT switch for station under test.		
(2) On LH vertical console control panel, set SELECT JETT switch to RACK/LCHR.		
(3) On LH vertical console control panel, press and release SELECT JETT switch JETT pushbutton.		
(4) On RDDI, H+ULK displayed in wingform for station under test. ....	j	k
j. Do troubleshooting for H+ULK Not Displayed On DDI, table 1 (WP027 21). Do step as .....	-	-
k. Do substeps below:		
(1) On ECM control panel assembly, set AUX REL switch to ENABLE.		
(2) Is troubleshooting being done on station 5? .....	l	ae
l. Do substeps below:		
(1) Connect multimeter between 61P-W097A pins F and X (ground).		
<b>NOTE</b>		
Auxiliary fire voltage (28vdc) exists at 61P-W097A pin F for approximately 60 milliseconds after JETT pushbutton pressed.		

**Table 1A. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) On LH vertical console control panel, press and release SELECT JETT switch JETT pushbutton.		
(3) Does 28vdc (auxiliary fire) exist at 61P-W097A pin F? .....	n	m
m. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00). Do step an .....	-	-
n. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Does continuity exist between 61P-W097A pin X and aircraft ground? .....	o	q
o. Do substeps below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
Station 2: 52J-U062 pin 71 and aircraft ground		
Station 3: 52J-U063 pin 71 and aircraft ground		
Station 7: 52J-V067 pin 71 and aircraft ground		
Station 8: 52J-V068 pin 71 and aircraft ground? .....	d	p
p. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step an .....	-	-
q. Do substeps below:		
(1) Disconnect 61P-W258 from wing pylon relay box assembly (failed station).		
(2) Does continuity exist between 61P-W258 pin S and 61P-W097A pin F? .....	p	r
r. Do substeps below:		
(1) Turn electrical power on (A1-F18AC-LMM-000).		
(2) On master arm control panel assembly, set MASTER switch to ARM.		
(3) If troubleshooting station 2 or 8, make sure release consent dummy panel is installed.		
(4) Set ARMAMENT OVERRIDE switch to OVERRIDE.		
(5) Does 28vdc exist between 61P-W258 pin A and 61P-W258 pin B (ground)? .....	w	s
s. Do substeps below:		
(1) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(2) On master arm control panel assembly, press and release A/G switch (A/G selected).		

**Table 1A. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(3) On ECM control panel assembly, set AUX REL switch to NORM.</p> <p>(4) On LDDI and RDDI, set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best displays.</p> <p>(5) On RDDI,</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(6) On flaps, landing gear and stores indicator panel, press and release CTR, LI, RI, LO or RO JETT STATION SELECT switch for station under test.</p> <p>(7) On LH vertical console control panel, set SELECT JETT switch to RACK/LCHR.</p> <p>(8) On LH vertical console control panel, press and release SELECT JETT switch JETT pushbutton.</p> <p>(9) On RDDI, H+ULK displayed on wingform for station under test.</p> <p>(10) On ECM control panel assembly, set AUX REL switch to ENABLE.</p> <p>(11) Connect multimeter between 61P-W258 pin F (auxiliary fire) and aircraft ground.</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Auxiliary fire voltage (28vdc) exists at 61P-W258 pin F for approximately 60 milli-seconds after JETT pushbutton pressed.</p>		
(12) On LH vertical console control panel, press and release SELECT JETT switch JETT pushbutton.		
(13) Did 28vdc (auxiliary fire) exist between 61P-W258 pin F and aircraft ground? . . . . .	t	v
t. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 504 (failed station) (A1-F18AC-LMM-010).		
(3) In door 504, disconnect 61P-W012A from encoder-decoder.		
(4) Does continuity exist between 61P-W012A pin a and 61P-W258 pin F? . . . . .	p	u
u. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		

**Table 1A. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
Do step an .....	-	-
v. Repair Wing Pylon Relay Box Assembly (A1-F18AC-740-300, WP034 00). Do step an .....	-	-
w. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Does continuity exist between 61P-W258 pin B and aircraft ground? .....	x	y
x. Do substeps below:		
(1) On failed station, remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
Station 2: 52J-U062 pin 65 and aircraft ground		
Station 3: 52J-U063 pin 65 and aircraft ground		
Station 7: 52J-V067 pin 65 and aircraft ground		
Station 8: 52J-V068 pin 65 and aircraft ground? .....	d	p
y. Do substeps below:		
(1) On failed station, remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) On Aircraft Wing Pylon SUU-63( ), does continuity exist between 52P-W018 pin 49 and 61P-W258 pin A? .....	p	z
z. Is troubleshooting being done on station 2 or 8? .....	d	aa
aa. Do substeps below:		
(1) Remove Release Consent Dummy Panel (A1-F18AC-740-300, WP003 00).		
(2) Remove Master Arm Control Panel Assembly (A1-F18AC-740-300, WP013 00).		
(3) Is troubleshooting being done on station 2? .....	ab	ad
ab. Does continuity exist between 61P-J022 pin 9 and 52P-H075 pin 30? .....	d	al
ac. Replace Release Consent Dummy Panel (A1-F18AC-740-300, WP003 00). Do step an .....	-	-
ad. Does continuity exist between 61P-J022C pin 9 and 52P-H075 pin 30? .....	d	am
ae. Do substeps below:		



**Table 1A. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(1) Connect multimeter between 61P-Z105A pin F and 61P-Z105A pin X (ground).		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Auxiliary fire voltage (28vdc) exists, at 61P-Z105A pin F for approximately 60 milliseconds after JETT pushbutton pressed.</p>		
(2) On LH vertical console control panel, press and release SELECT JETT switch JETT pushbutton.		
(3) Does 28vdc (auxiliary fire) exist at 61P-Z105A pin F? .....	af	m
af. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect 61P-R016A from J1 on right fuselage encoder-decoder.		
(3) Does continuity exist between:		
61P-Z105A pin F and 61P-R016A pin 63		
61P-Z105A pin X and aircraft ground? .....	ag	ak
ag. Do substeps below:		
(1) On centerline pylon, open door 510 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly.		
(3) Does continuity exist between:		
61P-Z167 pin F and 61P-Z105A pin F		
61P-Z167 pin X and 61P-Z105A pin X? .....	ah	ai
ah. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).		
Do step an .....	-	-
ai. Do substeps below:		
(1) Remove Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).		
(2) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(3) Does continuity exist between:		
61P-R167 pin F and 61P-R016A pin 63		
61P-R167 pin X and aircraft ground? .....	d	aj

**Table 1A. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
aj. Replace connector plate assembly (A1-F18AC-740-300, WP036 00). Do step as .....	-	-
ak. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Right Fuselage command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step an .....	-	-
al. Does continuity exist between 61P-J022C pin 2 and 52J-V068 pin 49? .....	d	ac
am. Does continuity exist between 61P-J022C pin 4 and 52J-U062 pin 49? .....	d	ac
an. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Aircraft Fuselage Centerline Pylon SUU-62( )		
(2) Aircraft Wing Pylon SUU-63( )		
(3) Connector Plate Assembly		
(4) ECM Control Panel Assembly		
(5) Master Arm Control Panel Assembly		
(6) Disconnect Proximity Switch Control		
(7) Release Consent Dummy Panel		
(8) Remove jumper wires (61P-W097A pin A and T, 61P-Z105A pin A and T).		
(9) 61P-F001B		
(10) 61P-R016A		
(11) 61P-W012		
(12) 61P-W097A		
(13) 61P-W258		
(14) 61P-Z105A		

**Table 1A. GO Light On Test Set Does Not Come On, Auxiliary Release -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(15) 61P-Z167		
(16) Doors 14R, 504, 509 and 510 .....	-	-

**Table 2. GO Light On Test Set Does Not Come On, S/V Test Select Jett**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Selective Jettison/Auxiliary Release Schematic (A1-F18AC-740-500, WP009 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-32( ) Aircraft Fuselage Centerline Pylon SUU-62( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Connector Plate Assembly Fuselage Command Signal Encoder-Decoder KY-864/AYQ-9(V) Wing Pylon Command Signal Encoder-Decoder KY-863/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div>NOTE</div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p>		

Table 2. GO Light On Test Set Does Not Come On, S/V Test Select Jett (Continued)

Procedure	No	Yes
<ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p>		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.		
(3) Open door 509 on centerline pylon (A1-F18AC-LMM-010).		
(4) Disconnect 61P-Z105A from Aircraft Bomb Ejector Rack BRU-32( ) on centerline pylon.		
(5) Connect jumper wires between 61P-W097A pins A and T and aircraft ground or 61P-Z105A pins A and T and aircraft ground.		
(6) Open door 14R (A1-F18AC-LMM-010).		
(7) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 24.		
<p style="text-align: center;"><b>WARNING</b></p> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(8) Connect proximity switch control (A1-F18AC-LMM-000).		
(9) Turn on electrical power (A1-F18AC-LMM-000).		
(10) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.		
(11) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(12) On master arm control panel assembly, press and release A/G switch.		
(13) On master arm control panel assembly, set MASTER switch to ARM.		

Table 2. GO Light On Test Set Does Not Come On, S/V Test Select Jett (Continued)

Procedure	No	Yes
(14) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(15) On flaps, landing gear and stores indicator panel, press and release CTR, LI, RI, LO or RO JETT STATION SELECT switch for station under test.		
(16) On LH vertical console control panel, set SELECT JETT switch to RACK/LCHR.		
(17) On Aircraft Wing Pylon SUU-63( ), do substeps listed below:		
(a) On LH vertical console control panel assembly, press and release SELECT JETT switch, JETT pushbutton.		
(b) Connect multimeter between 61P-W097A pins J and X (ground) or pins H and X (ground).		
(c) After release of JETT pushbutton, does voltage exist at 61P-W097A pins J or H? .....	b	c
(18) On Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:		
(a) On LH vertical console control panel assembly, press and release SELECT JETT switch, JETT pushbutton.		
(b) Connect multimeter between 61P-Z105A pins J and X (ground) or pins H and X (ground).		
(c) After release of JETT pushbutton, does voltage exist at 61P-Z105A pins J or H? . . . .	b	h
b. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step m .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.		
(4) Does continuity exist from:		
61P-W012A pin X to 61P-W097A pin J		
61P-W012A pin Y to 61P-W097A pin H? .....	d	e
d. Do substeps listed below:		
(1) Disconnect 61P-W258 from wing pylon relay box assembly.		


Table 2. GO Light On Test Set Does Not Come On, S/V Test Select Jett (Continued)

Procedure	No	Yes
(2) Does continuity exist from:  61P-W258 pin M to 61P-W097A pin J 61P-W258 pin C to 61P-W097A pin H 61P-W258 pin K to 61P-W097A pin X 61P-W258 pin P to 61P-W097A pin Y? .....	f	g
e. Repair wing pylon relay box (A1-F18AC-740-300, WP035 00) and do step o .....	-	-
f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step m .....	-	-
g. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step m .....	-	-
h. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000). (2) Open door 510 on centerline pylon (A1-F18AC-LMM-010). (3) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly. (4) Connect a ground at 61J-Z167 pin A and T. (5) Do substeps a(9) through a(18)(a). (6) Connect a multimeter between 61J-Z167 pin J and ground or pin H and ground. (7) Does voltage exist at 61J-Z167 pin J or H? .....	i	j
i. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step m .....	-	-
j. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000). (2) Remove connector plate assembly (A1-F18AC-740-300, WP036 00). (3) Disconnect 61P-R167 from 61J-Z167 on connector plate assembly. (4) Connect jumper wires between 61P-R167 pins A and T and aircraft ground. (5) Do substeps a(9) through a(18)(a). (6) Connect a multimeter between 61P-R167 pin J and ground or pin H and ground. (7) Does voltage exist at 61P-R167 pin J or H? .....	k	l

**Table 2. GO Light On Test Set Does Not Come On, S/V Test Select Jett (Continued)**

Procedure	No	Yes
k. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step o . . . . .	-	-
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-R016A from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).		
(3) Does continuity exist from:		
61P-R016A pin 53 to 61P-R167 pin J		
61P-R016A pin 42 to 61P-R167 pin H? . . . . .	m	n
m. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step o . . . . .	-	-
n. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step m . . . . .	-	-
o. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W097A		
(2) 61P-Z105A		
(3) 61P-R016A		
(4) 61P-W012A		
(5) 61P-W258		
(6) 61P-Z167		
(7) 61P-R167		
(8) Door 14R		
(9) Door 504		
(10) Door 509 and 510		
(11) Connector plate assembly		
(12) Disconnect proximity switch control		
(13) Remove jumper wires (61P-W097A, pins A and T; 61P-Z105A, pins A and T; 61J-Z167, pins A and T; 61P-R167, pins A and T) . . . . .	-	-

**Table 3. GO Light On Test Set Does Not Come On, Bomb Ejector Rack  
BRU-33( ) Select Jett**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Bomb Racks Schematic (A1-F18AC-740-500, WP062 00 and Selective Jettison/ Auxiliary Release Schematic WP019 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-33( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Connector Plate Assembly BRU-33 Wing Pylon Jumper Cable W56232 BRU-33 Centerline Jumper Cable W56226 Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p>		



**Table 3. GO Light On Test Set Does Not Come On, Bomb Ejector Rack  
BRU-33( ) Select Jett (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p>		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(3) Open door 502 on wing pylon (A1-F18AC-LMM-010).		
(4) Disconnect 61P-Y100A from Aircraft Bomb Ejector Rack BRU-33( ).		
(5) Connect jumper wires between 61P-Y100A pins A, C, and Y and aircraft ground.		
(6) Open door 14R (A1-F18AC-LMM-010).		
(7) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 24.		
<p style="text-align: center;"><b>WARNING</b></p> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(8) Connect proximity switch control (A1-F18AC-LMM-000).		
(9) Turn on electrical power (A1-F18AC-LMM-000).		
(10) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.		
(11) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK to UP.		
(12) On master arm control panel assembly, press and release A/G switch.		
(13) On master arm control panel assembly, set MASTER switch to ARM.		
(14) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(15) On flaps, landing gear and stores indicator panel, press and release CTR, LI, RI, LO or RO JETT STATION SELECT switch for station under test.		
(16) On LH vertical console control panel, set SELECT JETT switch to RACK/LCHR.		

**Table 3. GO Light On Test Set Does Not Come On, Bomb Ejector Rack  
BRU-33( ) Select Jett (Continued)**

Procedure	No	Yes
<p>(17) On Aircraft Wing Pylon SUU-63( ), do substeps listed below:</p> <p>(a) Connect multimeter between 61P-Y100A pins J and X (ground).</p> <p>(b) On LH vertical console control panel assembly, press and release SELECT JETT switch, JETT pushbutton and test for 28vdc at 61P-Y100A pin J.</p> <p>(c) Repeat substeps (a) and (b) for 61P-Y100A pin H and X (ground).</p> <p>(d) Did 28vdc exist at 61P-Y100A pins J and H? .....</p>	b	g
<p>(18) On Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:</p> <p>(a) Connect multimeter between 61P-Y100A pins J and X (ground).</p> <p>(b) On LH vertical console control panel assembly, press and release SELECT JETT switch, JETT pushbutton and test for 28vdc at 61P-Y100A pin J.</p> <p>(c) Repeat substeps (a) and (b) for 61P-Y100A pin H and X (ground).</p> <p>(d) Did 28vdc exist at 61P-Y100A pins J and H? .....</p>	k	i
<p>b. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012C from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.</p> <p>(4) Does continuity exist from:</p> <p>Aircraft ground to 61P-Y100A pin X</p> <p>61P-W012C pin D to 61P-Y100A pin J</p> <p>61P-W012C pin B to 61P-Y100A pin H</p> <p>61P-W012C pin J to 61P-Y100A pin C</p> <p>61P-W012C pin AA to 61P-Y100A pin A</p> <p>61P-W012C pin BB to 61P-Y100A pin Y .....</p>	c	j
<p>c. Do substeps listed below:</p> <p>(1) Disconnect 61P-Y112 from 61J-W112 on pylon stores electrical disconnect panel.</p>		

**Table 3. GO Light On Test Set Does Not Come On, Bomb Ejector Rack  
BRU-33( ) Select Jett (Continued)**

Procedure	No	Yes
<p>(2) Does continuity exist from:</p> <p>61P-Y100A pin C to 61P-Y112 pin 5  61P-Y100A pin A to 61P-Y112 pin 21  61P-Y100A pin Y to 61P-Y112 pin 20  61P-Y100A pin X to 61P-Y112 pin 36  61P-Y100A pin J to 61P-Y112 pin 77  61P-Y100A pin H to 61P-Y112 pin 93? .....</p>	d	e
<p>d. Replace BRU-33 wing pylon or centerline jumper cable (A1-F18AC-740-300, WP028 00) and do step q .....</p>	-	-
<p>e. Does continuity exist from:</p> <p>61J-W112 pin 5 to 61P-W012C pin J  61J-W112 pin 21 to 61P-W012C pin AA  61J-W112 pin 20 to 61P-W012C pin BB  61J-W112 pin 36 to aircraft ground  61J-W112 pin 77 to 61P-W012C pin D  61J-W112 pin 93 to 61P-W012C pin B? .....</p>	f	j
<p>f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step q .....</p>	-	-
<p>g. Do substeps listed below:</p> <p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist from:</p> <p>Station 7: 52J-V067 pin 20 to aircraft ground  Station 8: 52J-V068 pin 20 to aircraft ground  Station 2: 52J-U062 pin 20 to aircraft ground  Station 3: 52J-U063 pin 20 to aircraft ground? .....</p>	h	i
<p>h. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step q .....</p>	-	-
<p>i. Replace Aircraft Bomb Ejector Rack BRU-33( ) (A1-F18AC-740-300, WP028 00) and do step q .....</p>	-	-
<p>j. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step q .....</p>	-	-
<p>k. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

**Table 3. GO Light On Test Set Does Not Come On, Bomb Ejector Rack  
BRU-33( ) Select Jett (Continued)**

Procedure	No	Yes
<p>(2) Disconnect 61P-R016A from Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).</p> <p>(3) Does continuity exist from:</p> <p>61P-R016A pin 12 to 61P-Y100A pin A  61P-R016A pin 13 to 61P-Y100A pin C  61P-R016A pin 76 to 61P-Y100A pin Y  61P-R016A pin 72 to 61P-Y100A pin J  61P-R016A pin 71 to 61P-Y100A pin H  Aircraft ground to 61P-Y100A pin X? . . . . .</p>	l	n
<p>l. Do substeps listed below:</p> <p>(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-Y112 from 52J-Z065 on connector plate assembly.</p> <p>(3) Does continuity exist from:</p> <p>61P-Y100A pin A to 61P-Y112 pin 21  61P-Y100A pin C to 61P-Y112 pin 5  61P-Y100A pin Y to 61P-Y112 pin 20  61P-Y100A pin X to 61P-Y112 pin 36  61P-Y100A pin J to 61P-Y112 pin 77  61P-Y100A pin H to 61P-Y112 pin 93? . . . . .</p>	d	m
<p>m. Does continuity exist from:</p> <p>Aircraft ground to 52J-Z065 pin 36  61P-R016A pin 12 to 52J-Z065 pin 21  61P-R016A pin 13 to 52J-Z065 pin 5  61P-R016A pin 76 to 52J-Z065 pin 20  61P-R016A pin 71 to 52J-Z065 pin 93  61P-R016A pin 72 to 52J-Z065 pin 77? . . . . .</p>	o	i
<p>n. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step q . . . . .</p>	-	-
<p>o. Do substeps listed below:</p> <p>(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).</p> <p>(2) Disconnect 52P-R065 from 52J-Z065 on connector plate assembly.</p>		

**Table 3. GO Light On Test Set Does Not Come On, Bomb Ejector Rack  
BRU-33( ) Select Jett (Continued)**

Procedure	No	Yes
<p>(3) Does continuity exist from:</p> <p>61P-R016A pin 12 to 52P-R065 pin 21</p> <p>61P-R016A pin 13 to 52P-R065 pin 5</p> <p>61P-R016A pin 76 to 52P-R065 pin 20</p> <p>61P-R016A pin 71 to 52P-R065 pin 93</p> <p>61P-R016A pin 72 to 52P-R065 pin 77</p> <p>Aircraft ground to 52P-R065 pin 36? . . . . .</p>	h	p
p. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step q . . . . .	-	-
<p>q. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 61P-Y100A</p> <p>(2) 61P-Y112</p> <p>(3) 61P-R016A</p> <p>(4) 61P-W012C</p> <p>(5) 52P-R065</p> <p>(6) Door 14R</p> <p>(7) Door 502 and 504</p> <p>(8) Door 510</p> <p>(9) Connector plate assembly</p> <p>(10) Aircraft Wing Pylon SUU-63( )</p> <p>(11) Disconnect proximity switch control</p> <p>(12) Remove jumper wires (61P-Y100A, pins A, C, and Y) . . . . .</p>	-	-

**Table 4. Arming Units Will Not Deenergize, BRU-32 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Mechanical Fuzing Schematic (A1-F18AC-740-500, WP075 00) may be used as an aid when doing this procedure.		
For component locations, refer to WP007 00.		
Malfunction is caused by one of the items listed below.		
Malfunction is caused by one of the items listed below: Aircraft Bomb Ejector Rack BRU-32( ) Aircraft Fuselage Centerline Pylon SUU-62( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Connector Plate Assembly Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
NOTE		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps below:		
(1) Turn electrical power off.		
(2) Close aircraft bomb ejector rack BRU-32 suspension hooks (failed station).		

**Table 4. Arming Units Will Not Deenergize, BRU-32 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(3) Insert arming wire in arming solenoids, or latch zero retention force (ZRF) arming units.		
(4) On failed station, open aircraft bomb ejector rack BRU-32 suspension hooks.		
(5) Pull arming wires.		
(6) Did arming wires release, or ZRF arming units open (unlatch)? .....	b	c
b. Replace failed arming solenoids, or failed ZRF arming units (A1-F18AC-740-300, WP029 00) and do step p .....	-	-
c. Is troubleshooting being done on station 5? .....	d	j
d. Do substeps below:		
(1) Open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W097A from J1 on aircraft bomb ejector rack BRU-32.		
(3) Open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012A from J1 on Command Signal Encoder-Decoder KY-853/AYQ-9(V).		
(5) Does continuity exist between:		
61P-W097A pin a and 61P-W012A pin c		
61P-W097A pin U and 61P-W012A pin GG? .....	e	f
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step p .....	-	-
f. Does continuity exist between:		
61P-W097A pin D and aircraft ground		
61P-W097A pin N and aircraft ground? .....	h	g
g. Malfunction is caused by one of the items listed below:		
(1) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
(2) Aircraft Bomb Ejector Rack BRU-32 (A1-F18AC-740-300, WP031 00).		
Do step p .....	-	-

**Table 4. Arming Units Will Not Deenergize, BRU-32 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>h. Do substeps below:</p> <p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist between:</p> <p>Station 2: 52J-U062 pins 23/32 and aircraft ground</p> <p>Station 3: 52J-U063 pins 23/32 and aircraft ground</p> <p>Station 7: 52J-V067 pins 23/32 and aircraft ground</p> <p>Station 8: 52J-V068 pins 23/32 and aircraft ground? . . . . .</p>	i	e
i. Isolate defective aircraft wiring (A1-F18( )-WDM-000). Do step p . . . . .	-	-
<p>j. Do substeps below:</p> <p>(1) Open door 509 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-Z105A from J1 on aircraft bomb ejector rack BRU-32.</p> <p>(3) In right main landing gear door, disconnect 61P-R016A from J1 on Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).</p> <p>(4) Does continuity exist between:</p> <p>61P-Z105A pin a and 61P-R016A pin 24</p> <p>61P-Z105A pin U and 61P-R016A pin 15</p> <p>61P-Z105A pin D and aircraft ground</p> <p>61P-Z105A pin N and aircraft ground? . . . . .</p>	k	o
<p>k. Do substeps below:</p> <p>(1) On aircraft fuselage centerline pylon, open door 510 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly.</p> <p>(3) On aircraft fuselage centerline pylon, does continuity exist between:</p> <p>61P-Z105A pin a and 61P-Z167 pin a</p> <p>61P-Z105A pin U and 61P-Z167 pin U</p> <p>61P-Z105A pin D and 61P-Z167 pin D</p> <p>61P-Z105A pin N and 61P-Z167 pin N? . . . . .</p>	m	l
<p>l. Do substeps below:</p> <p>(1) Remove Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).</p>		



**Table 4. Arming Units Will Not Deenergize, BRU-32 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) Remove Connector Plate Assembly (A1-F18AC-740-300, WP036 00).		
(3) Does continuity exist between:		
61P-R167 pin a and 61P-R016A pin 24		
61P-R167 pin U and 61P-R016A pin 15		
61P-R167 pin D and aircraft ground		
61P-R167 pin N and aircraft ground? .....	i	n
m. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).		
Do step p .....	-	-
n. Replace Connector Plate Assembly (A1-F18AC-740-300, WP036 00). Do step p .....	-	-
o. Malfunction is caused by one of the items listed below:		
(1) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
(2) Aircraft Bomb Ejector Rack BRU-32 (A1-F18AC-740-300, WP031 00).		
Do step p .....	-	-
p. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-R016A		
(2) 61P-W012A		
(3) 61P-W097A		
(4) 61P-Z105A		
(5) 61P-Z167		
(6) Aircraft Fuselage Centerline Pylon SUU-62( )		
(7) Aircraft Wing Pylon SUU-63( )		
(8) Connector Plate Assembly		
(9) Doors 502, 504, and 509 .....	-	-



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - AIRCRAFT BOMB EJECTOR RACK BRU-32( ) ELECTRICAL FUZING TEST

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 162394 AND UP; ALSO 161353 THRU 161987 AFTER F18 AFC 37

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Initiated Built-In Test .....	WP009 00
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

## Alphabetical Index

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 IAAC 778	25 Oct 84	F/A-18A and F/A-18B Weapons Control System Aircraft Bomb Ejector Rack BRU-32/A, Modification of (ECP MDA-F18-00129)	15 Jun 84	-
F18 AFC 37	16 Feb 84	Deletion of Landing Gear Handle Logic From AN/AWW-4 Electrical Fuzing System (ECP MDA-F18-00113)	15 Jun 84	-
F18 AFC 57	-	Improved Aircraft Monitor And Control (AMAC), Installation Of (ECP MDA-F/A-18A-00087)	15 Jan 87	ECP coverage only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Electrical Fuzing Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>System Required Components</b>		
All system components installed.		
<b>Related Systems Required</b>		
Avionics Cooling System		
Electrical Systems		
Maintenance Status Display and Recording System		
Mission Computer System		
Multipurpose Display Group		
<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
AN/AWM-42A	Fuze Function Control Test Set	
W4	Cable Adapter	
74D-420030-1001	Proximity Switch Control	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
Component locations are shown in WP007 00. Test displays are shown on figure 1 and test equipment hookup is shown on figure 2.		
1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).		
<div>WARNING</div>		
To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.		
a. Make sure electrical power is off (A1-F18AC-LMM-000).		
b. Make sure all weapons are removed from aircraft.		
c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.		

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER) BRU-41/BRU-42 if installed on aircraft.</p> <p>g. Make sure gun electrical signal safety switch aft of door 6, is set to safe (extended) position.</p> <p>h. Make sure gun hold-back mechanism handle is set to cleared; gun hold-back handle indicator (extended).</p> <p>i. Make sure AN/ALE-39 dispensers are removed from aircraft.</p> <p>2. TEST EQUIPMENT HOOKUP.</p> <p>a. Remove forward and aft chamber assemblies from breeches on Aircraft Bomb Ejector Racks BRU-32( ).</p> <p>b. Open test set cover and remove cable W1 and cable adapter (W4) from cover (figure 2).</p> <p>c. Connect cable W1 to test set INPUT receptacle.</p> <p>d. Connect cable adapter (W4) to cable W 1.</p> <p>e. Connect cable adapter (W4) to connector assembly of station under test.</p> <p>3. OHMS TEST.</p> <p>a. On test set, set FUNCTION SWITCH to OHMS.</p>		

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
b. On test set, set OHMS/OFF/CAL switch to CAL and hold.  c. Release OHMS/OFF/CAL switch.  d. Close hooks on all Aircraft Bomb Ejector Racks BRU-32( ) on station under test.  e. On test set, set OHMS/OFF/CAL switch to OHMS and hold.  f. Open front and aft hooks of rack on station under test.  g. On test set, release OHMS/OFF/CAL switch.  h. Disconnect cable adapter (W4) from connector assembly and connect to next station under test.	VOLT-OHM METER indicates center of green area.      VOLT-OHM METER indicates infinity.   VOLT-OHM METER indicates center of green area.	Adjust CAL ADJ on test set.      Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00).  Replace Aircraft Bomb Ejector Racks BRU-32( ) (A1-F18AC-740-300, WP032 00).
<b>NOTE</b>		
Leave test set connected to last station for voltage tests.		
i. Repeat steps 3d through 3h for remaining stations.  4. PRELIMINARY.  a. Close hooks on Aircraft Bomb Ejector Racks BRU-32( ) for store ident.  b. Set ground safety handle to LOCKED.  c. On Aircraft Guided Missile Launcher LAU-116( ), make sure all launcher hooks are closed and SAFETY RELEASE is rotated clockwise.  d. Open door 14R (A1-F18AC-LMM-010).	SAFETY RELEASE INDICATOR shows GREEN-HOOKS LOCKED.	1. With hooks closed, rotate SAFETY RELEASE clockwise.  2. If SAFETY RELEASE will not rotate, replace Aircraft Guided Missiles Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>e. On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 25 and FUZING switches N to 3 and T to 1 for station under test.</p> <p>f. On Digital Display Indicator ID-2150/ASM-612 in nose wheelwell, look at WPN SYS FAIL indicator.</p> <p>g. Make sure RADAR switch on SNSR pod control box panel assembly is OFF.</p> <p>h. Open door 13L (A1-F18AC-LMM-010).</p> <p>i. On Electrical Fuzing Power Supply PP-6419/AWW-4(V), set 115 VAC circuit breaker switch to ON.</p>	WPN SYS FAIL indicator is black (not latched).	If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>j. Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>k. Apply electrical power (A1-F18AC-LMM-000).</p> <p>l. Connect ground intercommunications (A1-F18AC-LMM-000).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>After completion of Initiated Built-In Test (BIT), leave 1, 2 and 3 switches at ON and continue with this test.</p>		
<p>m. Do Initiated Built-In Test (WP009 00).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>If a malfunction occurs during this test, make sure circuit breakers shown in WP008 00 are closed.</p>		
<p>5. VT, VOLTAGE TEST.</p> <p>a. On LDDI, press and release MENU pushbutton switch until STORES option is displayed.</p>	Menu display appears on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
b. On LDDI, press STORES pushbutton switch.	Stores display appears on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
c. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
d. On master arm control panel assembly, press and release A/G switch.	1. A/G indicator light comes on.  2. Ground safety handle moves to UNLOCKED.	On F/A-18A, do table 1, (WP010 34). On F/A-18B, do table 2, (WP010 34).  Do table 1 (WP021 00).
e. On RDDI, press and release MENU pushbutton switch until STORES option is displayed.	Menu display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
f. On RDDI, press STORES pushbutton switch.	Stores display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-746-300, WP004 00).
g. On 161925 AND UP; ALSO 161353 THRU 161924 AFTER F-18 AFC 57; RH console: make sure release consent dummy panel is installed.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Do steps 5h thru 5m as required to complete PROG 5. If this program was previously selected it will be displayed when power is applied. If an X is displayed through PROG, the program is incomplete. If the X is removed from PROG, do step 5n.</p>		
h. On RDDI, press 82P pushbutton switch.	1. Selection indicated by box around 82P with X through 82P.  2. Box appears around 1 82P in wing form of station being checked.	Enter correct store code on Armament Computer CP-1342/AYQ-9(V) and repeat this step.  Do table 4 (WP031 00).
i. On RDDI, press PROG pushbutton switch.	PROG 5 appears on RDDI, X may appear through PROG.	Repeat this step until PROG 5 appears.



Table 1. Electrical Fuzing Test (Continued)


Procedure	Normal Indication	Remedy for Abnormal Indication
j. On RDDI, press UFC pushbutton switch.	 1. Box appears around UFC on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
	2. Electronic Equipment Control C-10380/ASQ (equipment control) displays options listed below:  a. QTY appears in option 1 display.	See Electronic Equipment Control C-10380/ASQ Lamp and Switch Test (A1-F18AC-741-300, WP004 00).
k. On Electronic Equipment Control C-10380/ASQ, press option 1 select switch and do substeps below:	Option 1 select colon (:) appears on left side of option 1 display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
<b>NOTE</b>		
If an error occurs while pressing keyboard switches, press keyboard CLR switch and repeat step.		
(1) Press keyboard 1 switch.	1 is displayed on equipment control scratch pad display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
(2) Press keyboard ENT switch.	1 is displayed on QTY line on RDDI.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
l. On RDDI, press EFUZ pushbutton switch.	Fuzing options displayed on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
m. On RDDI, press VT pushbutton switch.	1. VT displayed on EFUZ line in program.  2. X removed from PROG 5 line on RDDI.	Enter correct fuzing code on Armament Computer CP-1342/AYQ-9(V) and repeat this step.  Select PROG 5, do steps 5h through 5m.
n. On master arm control panel assembly, set MASTER switch to ARM.	SAFE is displayed on RDDI.	Do table 2 (WP010 17).
o. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.	1. Switch remains engaged.  2. ARM is displayed on RDDI.	Do table 1 (WP012 00).  Do table 1 (WP010 17).
	3. RDY displayed under 82P on RDDI.	Do table 4 (WP031 00).
p. On test set, set FUNCTION SWITCH to VT +300.		

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p style="text-align: center;">To prevent injury to personnel, avoid contact with high DC voltages while doing the steps below.</p>		
q. On aircraft controller grip assembly, press and hold A/G weapon release switch.		
r. Open Aircraft Bomb Ejector Rack BRU-32( ) hooks.	VOLT-OHM METER indicates in green area.	1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheel-well is black, if not, read and record maintenance codes. If maintenance code 081 or 085 is displayed, do table 1 (WP010 00).
s. Release A/G weapon release switch.	VOLT-OHM METER indicates infinity.	2. Do table 1 (WP023 00). Do table 2 (WP023 00).
t. On master arm control panel assembly, press and release A/G switch.	A/G indicator light goes off.	On F/A-18A, do table 1, (WP010 32). On F/A-18B, do table 2, (WP010 32).
u. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.		
v. On GND PWR control panel assembly, set 3 switch to AUTO.		
6. INST, VOLTAGE TEST.		
a. Close hooks on Aircraft Bomb Ejector Rack BRU-32( ) and move ground safety handle to LOCKED.		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">After 3 switch is set to B ON, allow Stores Management System 3 minutes to complete initial BIT.</p>		
b. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.	Ground safety handle remains at LOCKED.	Do table 1 (WP021 00).

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>c. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>d. On master arm control panel assembly, press and release A/G switch.</p> <p>e. On RDDI, press and release STORES pushbutton switch.</p> <p>f. On RDDI, press EFUZ pushbutton switch.</p> <p>g. On RDDI, press INST pushbutton switch.</p> <p>h. On test set, set FUNCTION SWITCH to INST +195.</p> <p>i. On aircraft controller grip assembly, press and hold A/G weapon release switch.</p> <p>j. Open Aircraft Bomb Ejector Rack BRU-32( ) hooks.</p> <p>k. Release A/G weapon release switch.</p> <p>l. On master arm control panel assembly, press and release A/G switch.</p>	<p>1. A/G indicator light comes on.</p> <p>2. Ground safety handle moves to UNLOCKED.</p> <p>Fuzing options displayed on RDDI.</p> <p>1. INST displayed on EFUZ line in program.</p> <p>2. X removed from PROG 5 line on RDDI.</p> <p>VOLT-OHM METER indicates in green area.</p> <p>VOLT-OHM METER indicates infinity.</p> <p>A/G indicator light goes off.</p>	<p>On F/A-18A, do table 1, (WP010 34). On F/A-18B, do table 2, (WP010 34).</p> <p>Do table 1 (WP021 00).</p> <p>Enter correct fuzing code on Armament Computer CP-1342/AYQ-9(V) and repeat this step.</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Select PROG 5, do steps 5h through 5k, 6f and 6g.</p> <p>1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black, if not, read and record maintenance codes. If maintenance code 081 or 085 is displayed, do table 1 (WP010 00).</p> <p>2. Do table 1 (WP023 00).</p> <p>Do table 2 (WP023 00).</p> <p>On F/A-18A, do table 1, (WP010 32). On F/A-18B, do table 2, (WP010 32).</p>

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>m. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.</p> <p>n. On GND PWR control panel assembly, set 3 switch to AUTO.</p> <p>7. DLY 1, VOLTAGE TEST.</p> <p>a. Close hooks on Aircraft Bomb Ejector Rack BRU-32( ) and move ground safety handle to LOCKED.</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">After 3 switch is set to B ON, allow Stores Management System 3 minutes to complete initial BIT.</p>		
b. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.	Ground safety handle remains at LOCKED.	Do table 1 (WP021 00).
c. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and set GEAR UPLOCK switch to UP.		
d. On master arm control panel assembly, press and release A/G switch.	<p>1. A/G indicator light comes on.</p> <p>2. Ground safety handle moves to UNLOCKED.</p>	<p>On F/A-18A, do table 1, (WP010 34). On F/A-18B, do table 2, (WP010 34).</p> <p>Do table 1 (WP021 00).</p>
e. On RDDI, press and release STORES pushbutton switch.		
f. On RDDI, press EFUZ pushbutton switch.	Fuzing options displayed on RDDI.	Enter correct fuzing code on Armament Computer CP-1342/AYQ-9(V) and repeat this step.
g. On RDDI, press DLY 1 pushbutton switch.	<p>1. DLY 1 displayed on EFUZ line in program.</p> <p>2. X removed from PROG 5 line on RDDI.</p>	<p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Select PROG 5, do steps 5h through 5k, 7f and 7g.</p>
h. On test set, set FUNCTION SWITCH to DLY 1 -195.		

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>i. On aircraft controller grip assembly, press and hold A/G weapon release switch.</p> <p>j. Open Aircraft Bomb Ejector Rack BRU-32( ) hooks.</p> <p>k. Release A/G weapon release switch.</p> <p>l. On master arm control panel assembly, press and release A/G switch.</p> <p>m. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.</p> <p>n. On GND PWR control panel assembly, set 3 switch to AUTO.</p> <p>8. DLY 2, VOLTAGE TEST.</p> <p>a. Close hooks on Aircraft Bomb Ejector Rack BRU-32( ) and move ground safety handle to LOCKED.</p>	<p>VOLT-OHM METER indicates in green area.</p> <p>VOLT-OHM METER indicates infinity.</p> <p>A/G indicator light goes off.</p>	<p>1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black, if not, read and record maintenance codes. If maintenance code 081 or 085 is displayed, do table 1 (WP010 00).</p> <p>2. Do table 1 (WP023 00).</p> <p>Do table 2 (WP023 00).</p> <p>On F/A-18A, do table 1, (WP010 32). On F/A-18B, do table 2, (WP010 32).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">After 3 switch is set to B ON, allow Stores Management System 3 minutes to complete initial BIT.</p>		
<p>b. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>c. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p>	<p>Ground safety handle remains at LOCKED.</p>	<p>Do table 1 (WP021 00).</p>

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
d. On master arm control panel assembly, press and release A/G switch.	1. A/G indicator light comes on.	On F/A-18A, do table 1, (WP010 34). On F/A-18B, do table 2, (WP010 34).
e. On RDDI, press and release STORES pushbutton switch.	2. Ground safety handle moves to UNLOCKED.	Do table 1 (WP021 00).
f. On RDDI, press EFUZ pushbutton switch.	Fuzing options displayed on RDDI.	Enter correct fuzing code on Armament Computer CP-1342/AYQ-9(V) and repeat this step.
g. On RDDI, press DLY 2 pushbutton switch.	1. DLY 2 displayed on EFUZ line in program.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
h. On test set, set FUNCTION SWITCH to DLY 2 -300.	2. X removed from PROG 5 line on RDDI.	Select PROG 5, do steps 5h through 5k, 8f and 8g.
i. On aircraft controller grip assembly, press and hold A/G weapon release switch.		
j. Open Aircraft Bomb Ejector Rack BRU-32( ) hooks.	VOLT-OHM METER indicates in green area.	1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black, if not, read and record maintenance codes. If maintenance code 081 or 085 is displayed, do table 1 (WP010 00).
k. Release A/G weapon release switch.	VOLT-OHM METER indicates infinity.	2. Do table 1 (WP023 00).
l. On master arm control panel assembly, press and release A/G switch.	A/G indicator light goes off.	Do table 2 (WP023 00).
m. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.		On F/A-18A, do table 1, (WP010 32). On F/A-18B, do table 2, (WP010 32).
n. On GND PWR control panel assembly, set 3 switch to AUTO.		

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>o. Close hooks on Aircraft Bomb Ejector Rack BRU-32( ) and set ground safety handle to LOCKED.</p> <p>p. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds and do SHUT-DOWN.</p> <p>9. SHUTDOWN.</p> <p>a. On 161925 AND UP; ALSO 161353 THRU 161924 AFTER F-18 AFC 57; RH console on AMAC Control, set left and right RELEASE CONSENT switches to OFF.</p> <p>b. On master arm control panel assembly, set MASTER switch to SAFE.</p> <p>c. On LDDI and RDDI, set power switch to OFF.</p> <p>d. On GND PWR control panel assembly, set 3, 2 and 1 switches to AUTO.</p> <p>e. On Electrical Fuzing Power Supply PP-6419/AWW-4(V), set 115VAC circuit breaker switch to off.</p> <p>f. Remove electrical power (A1-F18AC-LMM-000).</p> <p>g. Disconnect proximity switch control (A1-F18AC-LMM-000).</p> <p>h. Disconnect ground intercommunications (A1-F18AC-LMM-000).</p> <p>i. Close door 13L and door 14R (A1-F18AC-LMM-010).</p> <p>j. Disconnect cable adapter (W4) from connector assembly and cable W1.</p> <p>k. Disconnect cable W1 from test set and stow cable adapter (W4) and cable W1 in test set cover.</p>	<p>Ground safety handle remains at LOCKED.</p> <p>1. SAFE displayed on RDDI.</p> <p>2. ARMAMENT OVERRIDE switch disengages.</p>	<p>Do table 1 (WP021 00).</p> <p>Do table 2 (WP010 17).</p> <p>Do table 3 (WP010 17).</p>

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>l. Close hook on Aircraft Bomb Ejector Rack BRU-32( ).</p> <p>m. Set ground safety handle to LOCKED.</p> <p>n. Install forward and aft chamber assemblies in breeches on Aircraft Bomb Ejector Racks BRU-32( ).</p>		
<b>LEGEND</b>		
1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		



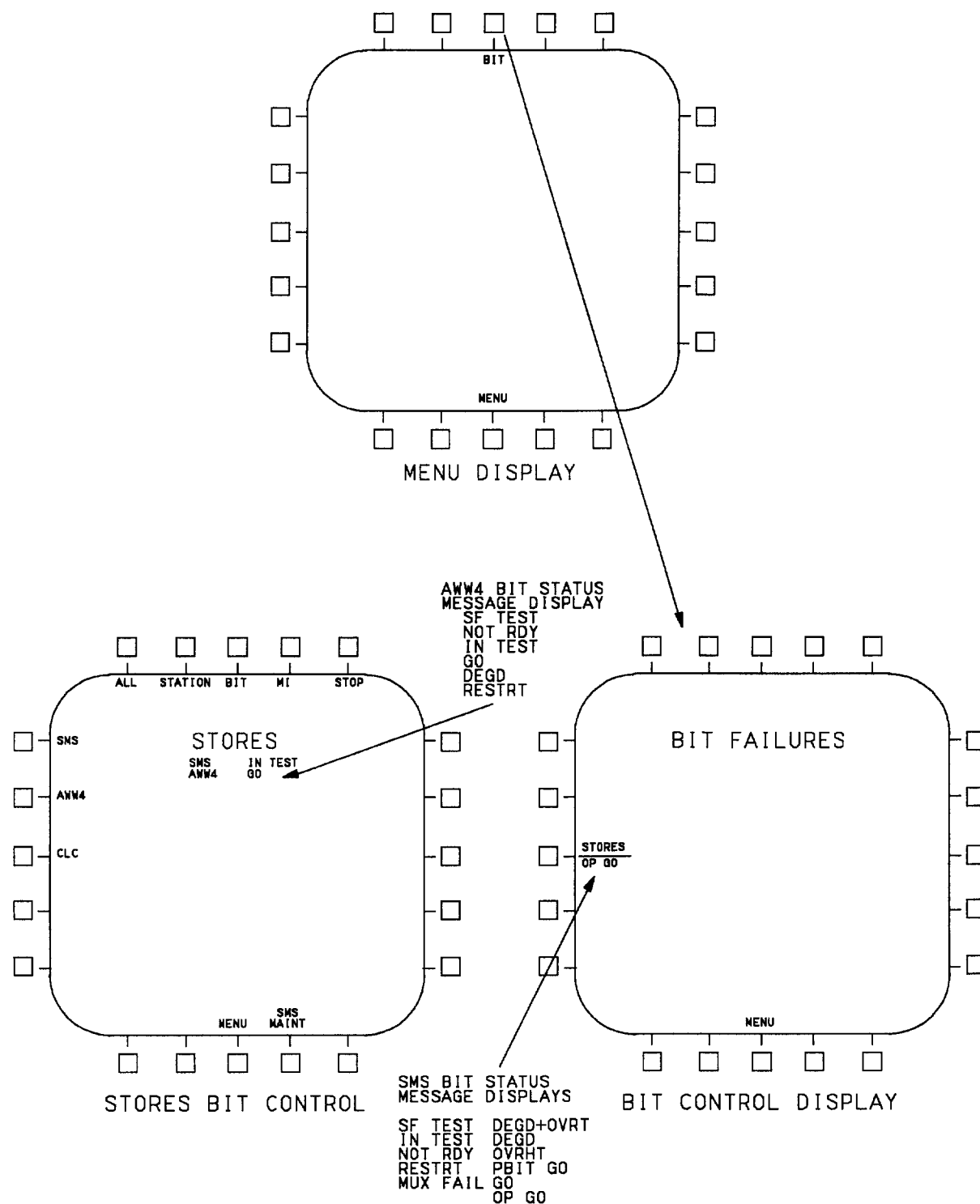


Figure 1. Test Displays (Sheet 1)

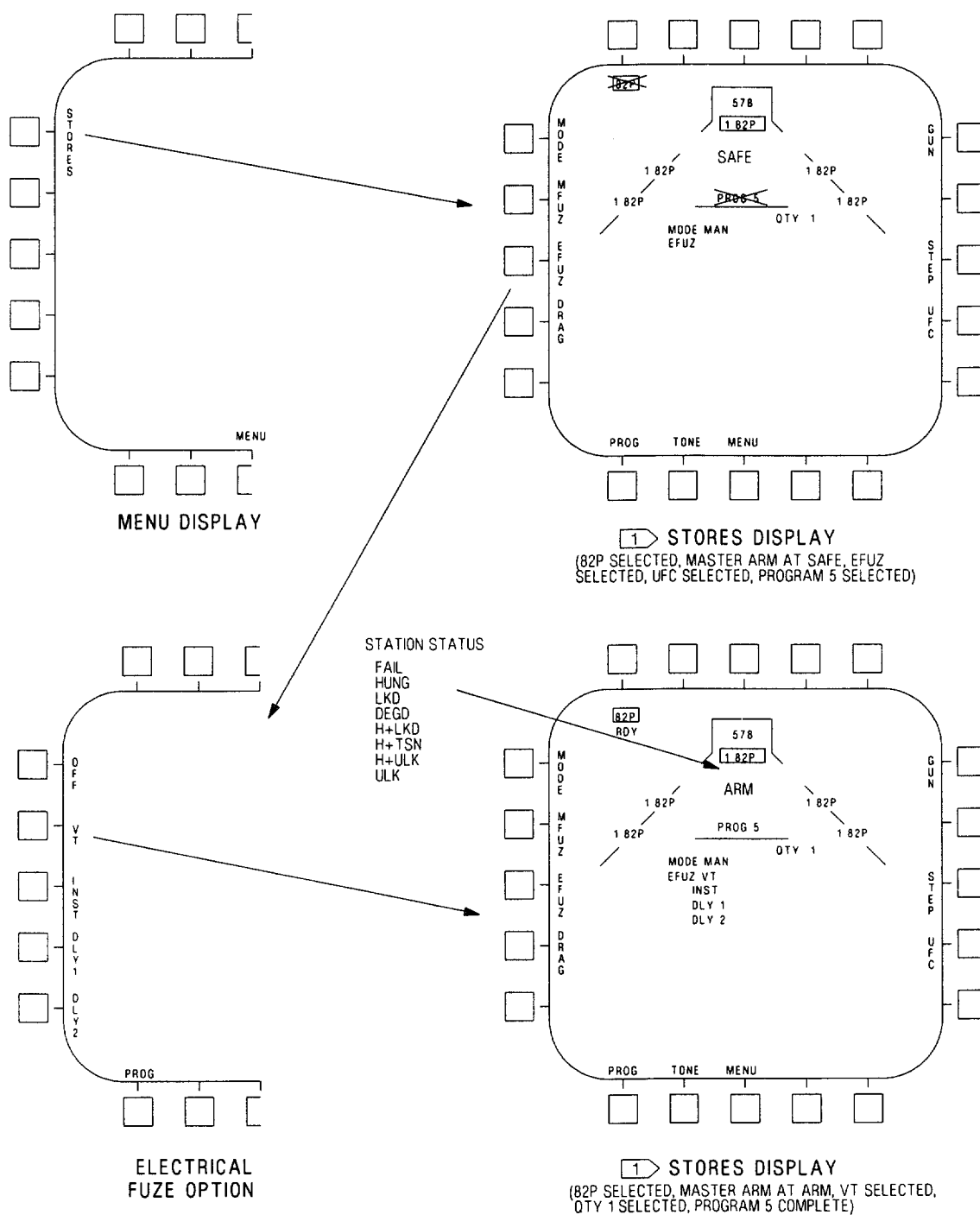


Figure 1. Test Displays (Sheet 2)

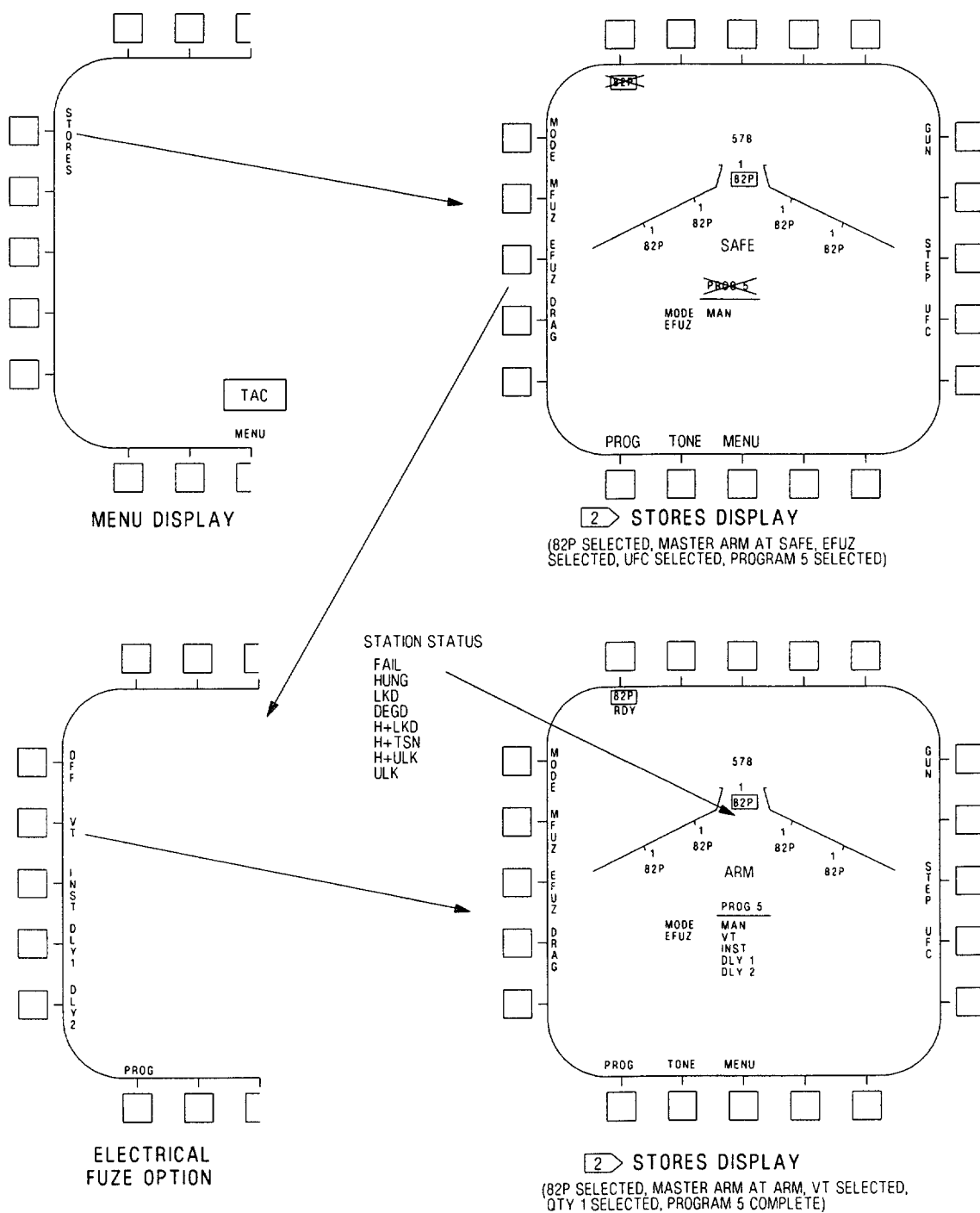
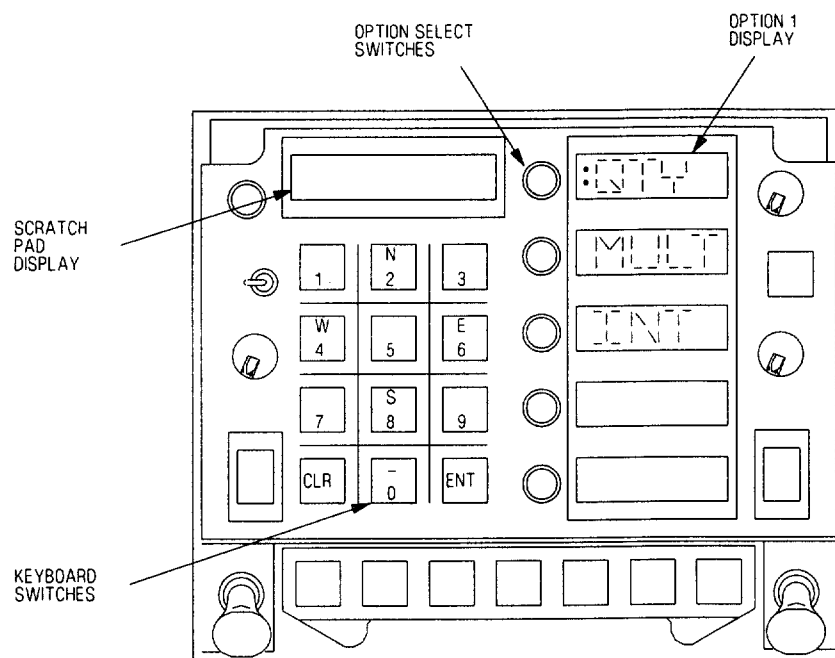


Figure 1. Test Displays (Sheet 3)



## ELECTRONIC EQUIPMENT CONTROL

## LEGEND

- 1 WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A (A1-F18AC-SCM-000).
- 2 WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C (A1-F18AC-SCM-000).

Figure 1. Test Displays (Sheet 4)

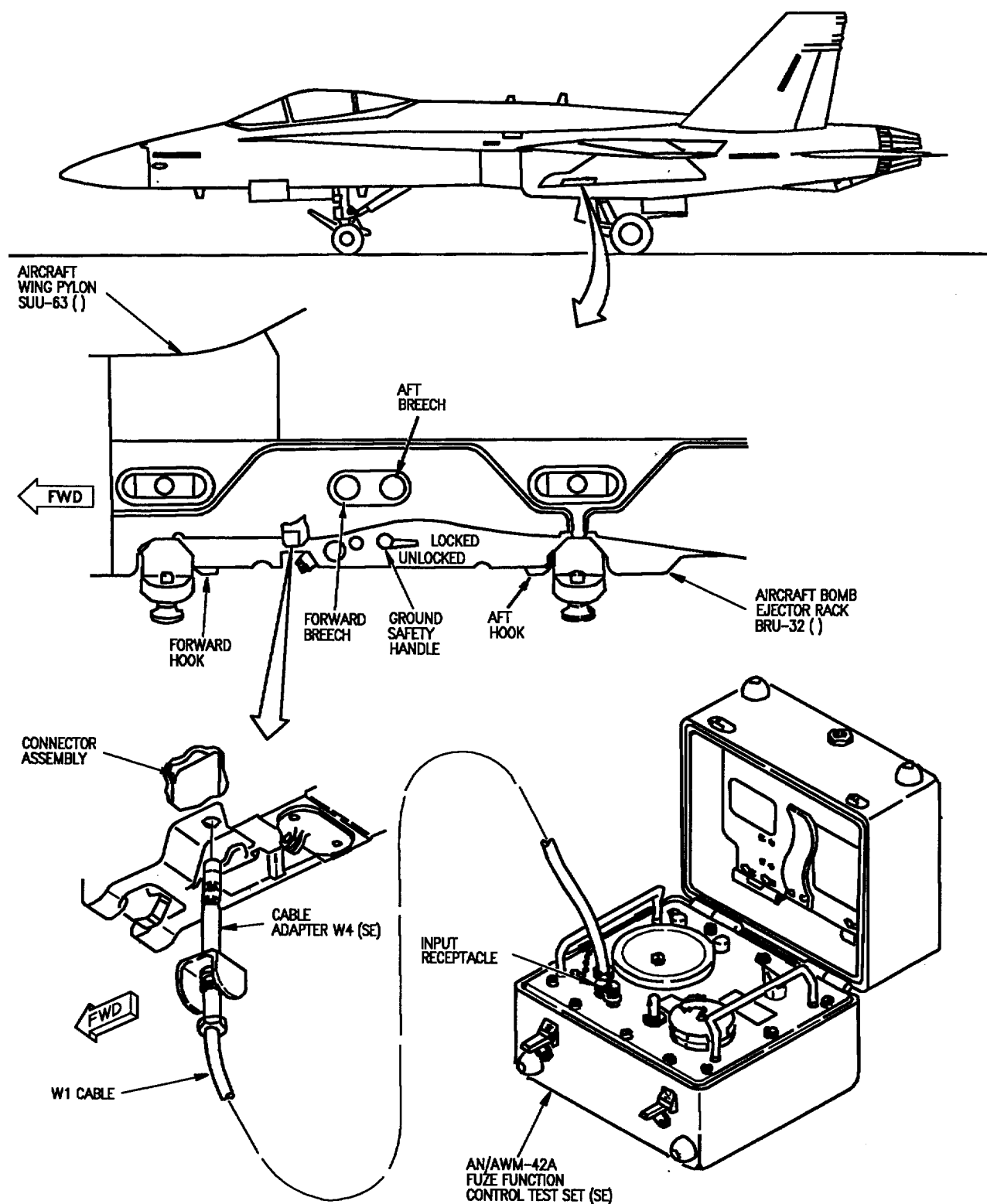


Figure 2. Test Equipment Hookup



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIRCRAFT BOMB EJECTOR RACK BRU-32( ) ELECTRICAL FUZING TEST

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 162394 AND UP; ALSO 161353 THRU 161987 AFTER F18 AFC 37

## Reference Material

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
Line Maintenance Access Doors ..... A1-F18AC-LMM-010  
Weapon Control System ..... A1-F18AC-740-200  
Stores Management System and Suspension and Release Mechanisms Locator ..... WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 37	11 Feb 84	Deletion of Landing Gear Handle Logic From AN/AWW-4 Electrical Fuzing System (ECP MDA-F/A-18-00113	15 Jun 84	-

Table 1. VOLT-OHM METER Does Not Indicate In Green Area

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Electrical Fuzing Schematic (A1-F18AC-740-500, WP074 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-32( ) Aircraft Fuselage Centerline Pylon SUU-62( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Connector Plate Assembly Electrical Fuzing Power Supply PP-6419/AWW-4(V) No. 8 Circuit Breaker/Relay Panel Assembly No. 2 Relay Panel Assembly		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p>52P-C159G</p>		



Table 1. VOLT-OHM METER Does Not Indicate In Green Area (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
<p style="text-align: center;"><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p>		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 13L (A1-F18AC-LMM-010).		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div>		
<p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(3) Connect proximity switch control (A1-F18AC-LMM-000).		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) On proximity switch control, set LEFT, RIGHT, and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(7) Does 115vac exist at $\phi$ A, $\phi$ B, and $\phi$ C test points on front panel of Electrical Fuzing Power Supply PP-6419/AWW-4(V)? .....	b	d
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-E009A from Electrical Fuzing Power Supply PP-6419/AWW-4(V).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		

Table 1. VOLT-OHM METER Does Not Indicate In Green Area (Continued)

Procedure	No	Yes
(4) Does 115vac exist at 61P-E009A pins m, f and g? .....	c	
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C159G from no. 8 circuit breaker/relay panel assembly.		
(4) Does continuity exist from:		
52P-C159G pin 11 to 61P-E009A pin m		
52P-C159G pin 12 to 61P-E009A pin f		
52P-C159G pin 22 to 61P-E009A pin g? .....	g	h
d. Does 28vdc exist at 28VDC and GND test points on front panel of Electrical Fuzing Power Supply PP-6419/AWW-4(V)? .....	f	k
e. Replace Electrical Fuzing Power Supply PP-6419/AWW-4(V) (A1-F18AC- 740-300, WP012 00)and do step w .....	-	-
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-E009A from Electrical Fuzing Power Supply PP-6419/AWW-4(V).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Does 28vdc exist at 61P-E009A pin B? .....	i	e
g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step w .....	-	-
h. Isolate malfunction between no. 8 circuit breaker/relay panel assembly wiring and 61CBC048, 61CBC049 or 61CBC050 (A1-F18AC-420-300, WP030 00) and do step w .....	-	-
i. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) Does continuity exist from 61P-E009A pin B to 61P-F001B pin 110? .....	g	j
j. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step w .....	-	-

Table 1. VOLT-OHM METER Does Not Indicate In Green Area (Continued)

Procedure	No	Yes
<p>k. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-E009A from Electrical Fuzing Power Supply PP-6419/AWW-4(V).</p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px 0;"> <b>WARNING</b> </div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p> <p>(3) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1 and 2 switches to B ON for 3 seconds.</p> <p>(6) Set LEFT, RIGHT, and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP on proximity switch control.</p> <p>(7) Does continuity exist from 61P-E009A pin GG and aircraft ground? . . . . .</p>	l	n
<p>l. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-F058C from no. 2 relay panel assembly.</p> <p>(4) Does continuity exist from 61P-E009A pin GG to 52P-F058C pin 32? . . . . .</p>	g	m
<p>m. Isolate malfunction between no. 2 relay panel assembly wiring and 12K-F024 relay (A1-F18AC-420-300, WP032 00) and do step w . . . . .</p>	-	-
<p>n. Do substeps listed below:</p> <div style="text-align: center; margin: 10px 0;"> <b>NOTE</b> </div> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) On wing pylon, disconnect 61P-W097B from Aircraft Bomb Ejector Rack BRU-32( ).</p>		

Table 1. VOLT-OHM METER Does Not Indicate In Green Area (Continued)

Procedure	No	Yes
(3) On centerline pylon, open door 509 (A1-F18AC-LMM-010).		
(4) On centerline pylon, disconnect 61P-Z105B from Aircraft Bomb Ejector Rack BRU-32( ).		
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(5) Connect proximity switch control (A1-F18AC-LMM-000).		
(6) Turn on electrical power (A1-F18AC-LMM-000).		
(7) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds..		
(8) On proximity switch control, set LEFT, RIGHT, and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(9) Do the electrical fuzing test steps to select display and PROG 5 for VT, INST, DLY 1, or DLY 2 fuzing, table 1 (WP022 00).		
(10) On aircraft controller grip, press and hold A/G weapon release switch.		
(11) Does 195 <del>±</del> 6vdc or 300 <del>±</del> 6vdc exist at wing pylon 61P-W097B pin B or centerline pylon 61P-Z105B pin B? .....	o	q
o. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-E009B from Electrical Fuzing Power Supply PP-6419/AWW-4(V).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(5) On proximity switch control, set LEFT, RIGHT, and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(6) Do the electrical fuzing test steps to select display and PROG 5 for VT, INST, DLY 1, or DLY 2 fuzing, table 1 (WP022 00).		
(7) On aircraft controller grip assembly, press and hold A/G weapon release switch. Does 195 <del>±</del> 6vdc or 300 <del>±</del> 6vdc exist at 1J2 pin B? .....	r	p

Table 1. VOLT-OHM METER Does Not Indicate In Green Area (Continued)

Procedure	No	Yes
<p>p. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) On Aircraft Wing Pylon SUU-63( ), do substeps listed below:</p> <p>(a) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(b) Does continuity exist from:</p> <p>Station 7: 52J-V067 pin 142 to 61P-E009B pin B</p> <p>Station 8: 52J-V068 pin 142 to 61P-E009B pin B</p> <p>Station 2: 52J-U062 pin 142 to 61P-E009B pin B</p> <p>Station 3: 52J-U063 pin 142 to 61P-E009B pin B . . . . .</p> <p>(3) On Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:</p> <p>(a) Open door 510 on centerline pylon (A1-F18AC-LMM-010).</p> <p>(b) Disconnect 61P-Z162 from 61J-Z162 on connector plate assembly.</p> <p>(c) Does continuity exist from:</p> <p>61P-Z105B pin B to 61P-Z162 pin B? . . . . .</p>	g	s
<p>q. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step w . . . . .</p>	-	-
<p>r. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove HIGH VOLTAGE ADJUST cover from Electrical Fuzing Power Supply PP-6419/AWW-4(V).</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) Adjust 300V R1 or 195V R2 to correct voltage at <del>±</del>HV and GND test points or replace Electrical Fuzing Power Supply PP-6419/AWW-4(V) (A1-F18AC-740-300, WP012 00) and do step w . . . . .</p>	-	-
<p>s. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step w . . . . .</p>	-	-
<p>t. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step w . . . . .</p>	-	-
<p>u. Do substeps listed below:</p> <p>(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).</p>		

Table 1. VOLT-OHM METER Does Not Indicate In Green Area (Continued)

Procedure	No	Yes
(2) Disconnect 61P-R162 from 61J-Z162 on connector plate assembly.		
(3) Does continuity exist from:		
61P-E009B pin B to 61P-R162 pin B? .....	g	v
v. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step w .....	-	-
w. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-E009A		
(2) 61P-E009B		
(3) 61P-W097B		
(4) 61P-Z105B		
(5) 52P-F058C		
(6) 61P-F001B		
(7) 52P-C159G		
(8) 61P-R162		
(9) 61P-Z162		
(10) Door 510		
(11) Door 509		
(12) Door 13L		
(13) Door 14R		
(14) Door 10L		
(15) HIGH VOLTAGE ADJUST cover		
(16) Connector plate assembly		
(17) Aircraft Wing Pylon SUU-63( ) .....	-	-

Table 2. VOLT-OHM METER Indication Wrong

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Electrical Fuzing Schematic (A1-F18AC-740-500, WP074 00) may be used as an aid while doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Controller Grip Assembly Armament Computer CP-1342/AYQ-9(V) Electrical Fuzing Power Supply PP-6419/AWW-4(V)		
Procedure	No	Yes
<div><div>CAUTION</div><p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p><div>NOTE</div><p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p><div><div>1. Pin to pin test per procedural step.</div><div>2. Shorts to ground.</div><div>3. Shorts between surrounding pins on connectors.</div><div>4. Shorts between shield and conductors.</div><div>5. Shield continuity.</div></div></div>		

Table 2. VOLT-OHM METER Indication Wrong (Continued)

Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 13L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-E009A from Electrical Fuzing Power Supply PP-6419/AWW-4(V).</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On aircraft controller grip assembly, press and release A/G weapon release switch.</p> <p>(6) Does voltage exist at 61P-E009A pin BB? . . . . .</p>	b	c
<p>b. Replace Electrical Fuzing Power Supply PP-6419/AWW-4(V) (A1-F18AC-740-300, WP012 00) and do step g . . . . .</p>	-	-
<p>c. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(6) Does voltage exist at J2 pins 115 or 47? . . . . .</p>	d	e
<p>d. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Press and release A/G weapon release switch.</p> <p>(3) After switch is released, does continuity exist from 61P-F100B pin 47 to pin 84? . . . . .</p>	f	e
<p>e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step g . . . . .</p>	-	-
<p>f. Replace aircraft controller grip assembly (A1-F18AC-570-300, WP005 00) and do step g. . . . .</p>	-	-
<p>g. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 61P-F001B</p>		



Table 2. VOLT-OHM METER Indication Wrong (Continued)

Procedure	No	Yes
(2) 61P-E009A		
(3) Door 13L		
(4) Door 14R .....	-	-



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - AIRCRAFT BOMB EJECTOR RACK BRU-33( ) ELECTRICAL FUZING TEST

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 162394 AND UP; ALSO 161353 THRU 161987 AFTER F18 AFC 37

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Initiated Built-In Test .....	WP009 00
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System Suspension and Release Mechanisms Locator .....	WP007 00

## Alphabetical Index

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Test Equipment Hookup, Figure 2 .....	19

## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AAC 779	26 Oct 84	F/TF/A-18A Weapons Control System, Vertical Ejection Rack BRU-33( ), Modification of (ECP MDA-F18-00129)	15 Jun 84	-
F18 AFC 37	11 Feb 84	Deletion of Landing Gear Handle Logic From AN/AWW-4 Electrical Fuzing System (ECP MDA-F18-00113)	15 Jun 84	-
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Electrical Fuzing Test

Procedure	Normal Indication	Remedy for Abnormal Indication						
<div>System Required Components</div> <div>All system components installed.</div> <div>Related Systems Required</div> <div>Avionics Cooling System Electrical System Maintenance Status Display and Recording System Mission Computer System Multipurpose Display Group</div> <div>Support Equipment Required</div> <table><tr><th>Part Number or Type Designation</th><th>Nomenclature</th></tr><tr><td>AN/AWM-42A</td><td>Fuze Function Control Test Set</td></tr><tr><td>W4</td><td>Cable Adapter</td></tr></table> <div>Materials Required</div> <div>None</div> <div>NOTE</div> <div>Component locations are shown in WP007 00. Test displays are shown on figure 1 and test equipment hookup is shown on figure 2.</div> <div>1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).</div> <div><div>WARNING</div><div>To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.</div><div><div>a. Make sure electrical and hydraulic power are off (A1-F18AC-LMM-000).</div><div>b. Make sure all weapons are removed from aircraft.</div></div></div>			Part Number or Type Designation	Nomenclature	AN/AWM-42A	Fuze Function Control Test Set	W4	Cable Adapter
Part Number or Type Designation	Nomenclature							
AN/AWM-42A	Fuze Function Control Test Set							
W4	Cable Adapter							

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER), BRU-41/BRU-42 if installed on aircraft.</p> <p>g. Make sure gun electrical signal safety switch aft of door 6, is set to safe (extended) position.</p> <p>h. Make sure gun holdback mechanism handle is set to cleared; gun holdback handle indicator (extended).</p> <p>i. Make sure AN/ALE-39 are removed from aircraft.</p> <p>2. TEST EQUIPMENT HOOKUP.</p> <p>a. Remove forward and aft chamber assemblies from breeches on Aircraft Bomb Ejector Racks BRU-33( ).</p> <p>b. Open test set cover and remove cable W1 and cable adapter (W4) from cover (figure 2).</p> <p>c. Connect cable W1 to test set INPUT receptacle.</p> <p>d. Connect cable adapter (W4) to cable W1.</p>		

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>e. Connect cable adapter (W4) to connector assembly of station under test.</p> <p>3. OHMS TEST.</p> <p>a. On test set, set FUNCTION SWITCH to OHMS.</p> <p>b. On test set, set OHMS/OFF/CAL switch to CAL and hold.</p> <p>c. Release OHMS/OFF/CAL switch.</p> <p>d. Close hooks on all Aircraft Bomb Ejector Racks BRU-33( ) on station under test.</p> <p>e. On test set, set OHMS/OFF/CAL switch to OHMS and hold.</p> <p>f. Open front and aft hooks of rack on station under test.</p> <p>g. On test set, release OHMS/OFF/CAL switch.</p> <p>h. Disconnect cable adapter (W4) from connector assembly and connect to next station under test.</p>	<p>VOLT-OHM METER indicates center of green area.</p> <p>VOLT-OHM METER indicates infinity.</p> <p>VOLT-OHM METER indicates center of green area.</p>	<p>Adjust CAL ADJ on test set.</p> <p>Replace Aircraft Bomb Ejector Rack BRU-33( ) (A1-F18AC-740-300, WP028 00).</p> <p>Replace Aircraft Bomb Ejector Racks BRU-33( ) (A1-F18AC-740-300, WP028 00).</p>
<b>NOTE</b>		
Leave test set connected to last station for voltage tests.		
<p>i. Repeat steps 3d thru 3h for remaining stations.</p> <p>4. PRELIMINARY.</p> <p>a. Close hooks on all Aircraft Bomb Ejector Racks BRU-33( ) for store ident.</p> <p>b. Set ground safety handle to LOCKED.</p>		

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>c. On Aircraft Guided Missile Launcher LAU-116( ), make sure all launcher hooks are closed and SAFETY RELEASE is rotated clockwise.</p> <p>d. Open door 14R (A1-F18AC-LMM-010).</p> <p>e. On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 25 and FUZING switches N to 3 and T to 1 for stations under test.</p> <p>f. On Digital Display Indicator ID-2150/ASM-612 in nose wheelwell, look at WPN SYS FAIL indicator.</p> <p>g. Make sure RADAR switch on SNSR pod control box panel assembly is OFF.</p> <p>h. Open door 13L (A1-F18AC-LMM-010).</p> <p>i. On Electrical Fuzing Power Supply PP-6419/AWW-4(V), set 115 VAC circuit breaker switch to ON.</p>	<p>SAFETY RELEASE INDICATOR shows GREEN-HOOKS LOCKED.</p> <p>WPN SYS FAIL indicator is black (not latched).</p>	<p>1. With hooks closed, rotate SAFETY RELEASE clockwise.</p> <p>2. If SAFETY RELEASE will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p> <p>If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).</p>
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: fit-content;"> <b>WARNING</b> </div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>j. Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>k. Apply electrical power (A1-F18AC-LMM-000).</p> <p>l. Connect ground intercommunications (A1-F18AC-LMM-000).</p>		

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p style="text-align: center;"><b>NOTE</b></p> <p>After completion of Initiated Built-In Test (BIT), leave 1, 2 and 3 switches at ON and continue with this test.</p>		
m. Do Initiated Built-In Test (WP009 00).		
<p style="text-align: center;"><b>NOTE</b></p> <p>If a malfunction occurs during this test, make sure circuit breakers shown in WP008 00 are closed.</p>		
5. VT, VOLTAGE TEST.		
a. On LDDI, press MENU pushbutton switch.	Menu display appears on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
b. On LDDI, press STORES pushbutton switch.	Stores display appears on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
c. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
d. On master arm control panel assembly, press and release A/G switch.	1. A/G indicator light comes on.  2. Ground safety handle moves to UNLOCKED.	On F/A-18A, do table 1, (WP010 34). On F/A-18B, do table 2, (WP010 34).  Do table 1 (WP033 02).
e. On RDDI, press MENU pushbutton switch.	Menu display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
f. On RDDI, press STORES pushbutton switch.	Stores display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).



Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>Do steps 5g through 5l as required to complete PROG 5. If this program was previously selected it will be displayed when power is applied. If an X is displayed through PROG, the program is incomplete. If the X is removed from PROG, do step 5m.</p>		
g. On RDDI, press 82P pushbutton switch.	1. Selection indicated by box around 82P with X through 82P.	Enter correct store code on Armament Computer CP-1342/AYQ-9(V) and repeat this step.
	2. Box appears around 2 82P or 2 ◇ 82P in wing form of station being checked.	Do table 4 (WP031 00).
h. On RDDI, press PROG pushbutton switch.	PROG 5 appears on RDDI X may appear through PROG 5.	Repeat this step until PROG 5 appears.
i. On RDDI, press UFC pushbutton switch.	1. Box appears around UFC on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
	2. Electronic Equipment Control C-10380/ASQ (equipment control) displays options listed below:	See Electronic Equipment Control C-10380/ASQ Lamp and Switch Test (A1-F18AC-741-200, WP004 00).
	a. QTY appears in option 1 display.	
	b. MULT appears in option 2 display.	
	c. INT appears in option 3 display.	
j. On Electronic Equipment Control C-10380/ASQ, press option 1 select switch and do substeps below:	Option 1 select colon (:) appears on left side of option 1 display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
<p align="center"><b>NOTE</b></p> <p>If an error occurs while pressing keyboard switches, press keyboard CLR switch and repeat step.</p>		
(1) Press keyboard 1 switch.	1 is displayed on equipment control scratch pad display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
(2) Press keyboard ENT switch.	1 is displayed on QTY line on RDDI.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
k. On RDDI, press EFUZ pushbutton switch.	Fuzing options displayed on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
l. On RDDI, press VT pushbutton switch.	1. VT displayed on EFUZ line in program.  2. X removed from PROG 5 line on RDDI.	Enter correct fuzing code on Armament Computer CP-1342/AYQ-9(V) and repeat this step.  Select PROG 5, do steps 5g through 5l.
m. On master arm control panel assembly, set MASTER switch to ARM.	MASTER switch remains in ARM.	Replace Master Arm Control Panel Assembly (A1-F18AC-740-300, WP013 00).
n. On nose wheelwell on left side, set ARMAMENT OVERRIDE switch to OVERRIDE.	1. Switch remains engaged.  2. ARM is displayed on RDDI.	Do table 1 (WP010 00).  Do table 1 (WP010 17).
o. On test set, set FUNCTION SWITCH to VT +300.	3. RDY displayed under 82P on RDDI.	Do table 4 (WP031 00).
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;"><b>WARNING</b></div> <p>To prevent injury to personnel, avoid contact with high DC voltages while doing the steps below.</p>		
p. On aircraft controller grip assembly, press and hold A/G weapon release switch.		
q. Open Aircraft Bomb Ejector Rack BRU-33( ) hooks.	VOLT-OHM METER indicates in green area.	1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black, if not, read and record maintenance codes. If maintenance code 081 or 085 is displayed, do table 1 (WP010 00).  2. Do table 1 (WP025 00).
r. Release A/G weapon release switch.	VOLT-OHM METER indicates infinity.	Do table 2 (WP023 00).

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>s. On master arm control panel assembly, press and release A/G switch.</p> <p>t. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.</p> <p>u. On GND PWR control panel assembly, set 3 switch to AUTO.</p> <p>6. INST, VOLTAGE TEST.</p> <p>a. Close hooks on Aircraft Bomb Ejector Rack BRU-33( ) and move ground safety handle to LOCKED.</p>	A/G indicator light goes off.	On F/A-18A, do table 1, (WP010 32). On F/A-18B, do table 2, (WP010 32).
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">After 3 switch is set to B ON, allow Stores Management System 3 minutes to complete initial BIT.</p>		
<p>b. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>c. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>d. On master arm control panel assembly, press and release A/G switch.</p> <p>e. On RDDI, press and release STORES pushbutton switch.</p> <p>f. On RDDI, press EFUZ pushbutton switch.</p> <p>g. On RDDI, press INST pushbutton switch.</p>	<p>Ground safety handle remains at LOCKED.</p> <p>1. A/G indicator light comes on.</p> <p>2. Ground safety handle moves to UNLOCKED.</p> <p>Fuzing options displayed on RDDI.</p> <p>1. INST displayed on EFUZ line in program.</p> <p>2. X removed from PROG 5 line on RDDI.</p>	<p>Do table 1 (WP033 02).</p> <p>On F/A-18A, do table 1, (WP010 34). On F/A-18B, do table 2, (WP010 34).</p> <p>Do table 1 (WP033 02).</p> <p>Enter correct fuzing code on Armament Computer CP-1342/AYQ-9(V) and repeat this step.</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Select PROG 5, do steps 5g through 5j, 6f and 6g.</p>

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>h. On test set, set FUNCTION SWITCH to INST + 195.</p> <p>i. On aircraft controller grip assembly, press and hold A/G weapon release switch.</p> <p>j. Open Aircraft Bomb Ejector Rack BRU-33( ) hooks.</p> <p>k. Release A/G weapon release switch.</p> <p>l. On master arm control panel assembly, press and release A/G switch.</p> <p>m. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.</p> <p>n. On GND PWR control panel assembly, set 3 switch to AUTO.</p> <p>7. DLY 1, VOLTAGE TEST.</p> <p>a. Close hooks on Aircraft Bomb Ejector Rack BRU-33( ) and move ground safety handle to LOCKED.</p>	<p>VOLT-OHM METER indicates in green area.</p> <p>VOLT-OHM METER indicates infinity.</p> <p>A/G indicator light goes off.</p>	<p>1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheel-well is black, if not, read and record maintenance codes. If maintenance code 081 or 085 is displayed, do table 1 (WP010 00).</p> <p>2. Do table 1 (WP025 00).</p> <p>Do table 2 (WP023 00).</p> <p>On F/A-18A, do table 1, (WP010 32). On F/A-18B, do table 2, (WP010 32).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>After 3 switch is set to B ON, allow Stores Management System 3 minutes to complete initial BIT.</p>		
<p>b. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>c. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and set GEAR UPLOCK switch to UP.</p>	<p>Ground safety handle remains at LOCKED.</p>	<p>Do table 1 (WP033 02).</p>

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>d. On master arm control panel assembly, press and release A/G switch.</p> <p>e. On RDDI, press and release STORES pushbutton switch.</p> <p>f. On RDDI, press EFUZ pushbutton switch.</p> <p>g. On RDDI, press DLY 1 pushbutton switch.</p> <p>h. On test set, set FUNCTION SWITCH to DLY 1 -195.</p> <p>i. On aircraft controller grip assembly, press and hold A/G weapon release switch.</p> <p>j. Open Aircraft Bomb Ejector Rack BRU-33( ) hooks.</p> <p>k. Release A/G weapon release switch.</p> <p>l. On master arm control panel assembly, press and release A/G switch.</p> <p>m. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.</p> <p>n. On GND PWR control panel assembly, set 3 switch to AUTO.</p>	<p>1. A/G indicator light comes on.</p> <p>2. Ground safety handle moves to UNLOCKED.</p> <p>Fuzing options displayed on RDDI.</p> <p>1. DLY 1 displayed on EFUZ line in program.</p> <p>2. X removed from PROG 5 line on RDDI.</p> <p>VOLT-OHM METER indicates in green area.</p> <p>VOLT-OHM METER indicates infinity.</p> <p>A/G indicator light goes off.</p>	<p>On F/A-18A, do table 1, (WP010 34). On F/A-18B, do table 2, (WP010 34).</p> <p>Do table 1 (WP033 02).</p> <p>Enter correct fuzing code on Armament Computer CP-1342/AYQ-9(V) and repeat this step.</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Select PROG 5, do steps 5g through 5j, 7f and 7g.</p> <p>1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black, if not, read and record maintenance codes. If maintenance code 081 or 085 is displayed, do table 1 (WP010 00).</p> <p>2. Do table 1 (WP025 00).</p> <p>Do table 2 (WP023 00).</p> <p>On F/A-18A, do table 1, (WP010 32). On F/A-18B, do table 2, (WP010 32).</p>

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
8. DLY 2, VOLTAGE TEST.		
a. Close hooks on Aircraft Bomb Ejector Rack BRU-33( ) and move ground safety handle to LOCKED.		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">After 3 switch is set to B ON, allow Stores Management System 3 minutes to complete initial BIT.</p>		
b. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.	Ground safety handle remains at LOCKED.	Do table 1 (WP033 02).
c. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
d. On master arm control panel assembly, press and release A/G switch.	1. A/G indicator light comes on.	On F/A-18A, do table 1, (WP010 34). On F/A-18B, do table 2, (WP010 34).
	2. Ground safety handle moves to UNLOCKED.	Do table 1 (WP033 02).
e. On RDDI, press and release STORES pushbutton switch.		
f. On RDDI, press EFUZ pushbutton switch.	Fuzing options displayed on RDDI.	Enter correct fuzing code on Armament Computer CP-1342/AYQ-9(V) and repeat this step.
g. On RDDI, press DLY 2 pushbutton switch.	1. DLY 2 displayed on EFUZ line in program.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
	2. X removed from PROG 5 line on RDDI.	Select PROG 5, do steps 5g through 5j, 8f and 8g.
h. On test set, set FUNCTION SWITCH to DLY 2 -300.		
i. On aircraft controller grip assembly, press and hold A/G weapon release switch.		

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
j. Open Aircraft Bomb Ejector Rack BRU-33( ) hooks.	VOLT-OHM METER indicates in green area.	1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black, if not, read and record maintenance codes. If maintenance code 081 or 085 is displayed, do table 1 (WP010 00).
k. Release A/G weapon release switch.	VOLT-OHM METER indicates infinity.	2. Do table 1 (WP025 00).
l. On master arm control panel assembly, press and release A/G switch.	A/G indicator light goes off.	Do table 2 (WP023 00).
m. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.		On F/A-18A, do table 1, (WP010 32). On F/A-18B, do table 2, (WP010 32).
n. On GND PWR control panel assembly, set 3 switch to AUTO.		
o. Close hooks on Aircraft Bomb Ejector Rack BRU-33( ) and set ground safety handles to LOCKED.		
p. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds and do SHUTDOWN.	Ground safety handle remains at LOCKED.	Do table 1 (WP033 02).
10. SHUTDOWN.		
a. On master arm control panel assembly, set MASTER switch to SAFE.	1. SAFE displayed on RDDI.	Do table 2 (WP010 17).
	2. ARMAMENT OVERRIDE switch disengages.	Do table 3 (WP010 17).
b. On LDDI and RDDI, set power switch to OFF.		
c. On GND PWR control panel assembly, set 3, 2 and 1 switches to AUTO.		

Table 1. Electrical Fuzing Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>d. On Electrical Fuzing Power Supply PP-6419/AWW-4(V), set 115VAC circuit breaker switch to off.</p> <p>e. Remove electrical power (A1-F18AC-LMM-000).</p> <p>f. Disconnect ground intercommunications (A1-F18AC-LMM-000).</p> <p>g. Disconnect proximity switch control (A1-F18AC-LMM-000).</p> <p>h. Close door 13L and door 14R (A1-F18AC-LMM-010).</p> <p>i. Disconnect cable adapter (W4) from connector assembly and cable W1.</p> <p>j. Disconnect cable W1 from test set and stow cable adapter (W4) and cable W1 in test set cover.</p> <p>k. Close hooks on Aircraft Bomb Ejector Rack BRU-33( ).</p> <p>l. Set ground safety handle to LOCKED.</p> <p>m. Install forward and aft chamber assemblies in breeches on Aircraft Bomb Ejector Racks BRU-33( ).</p>		



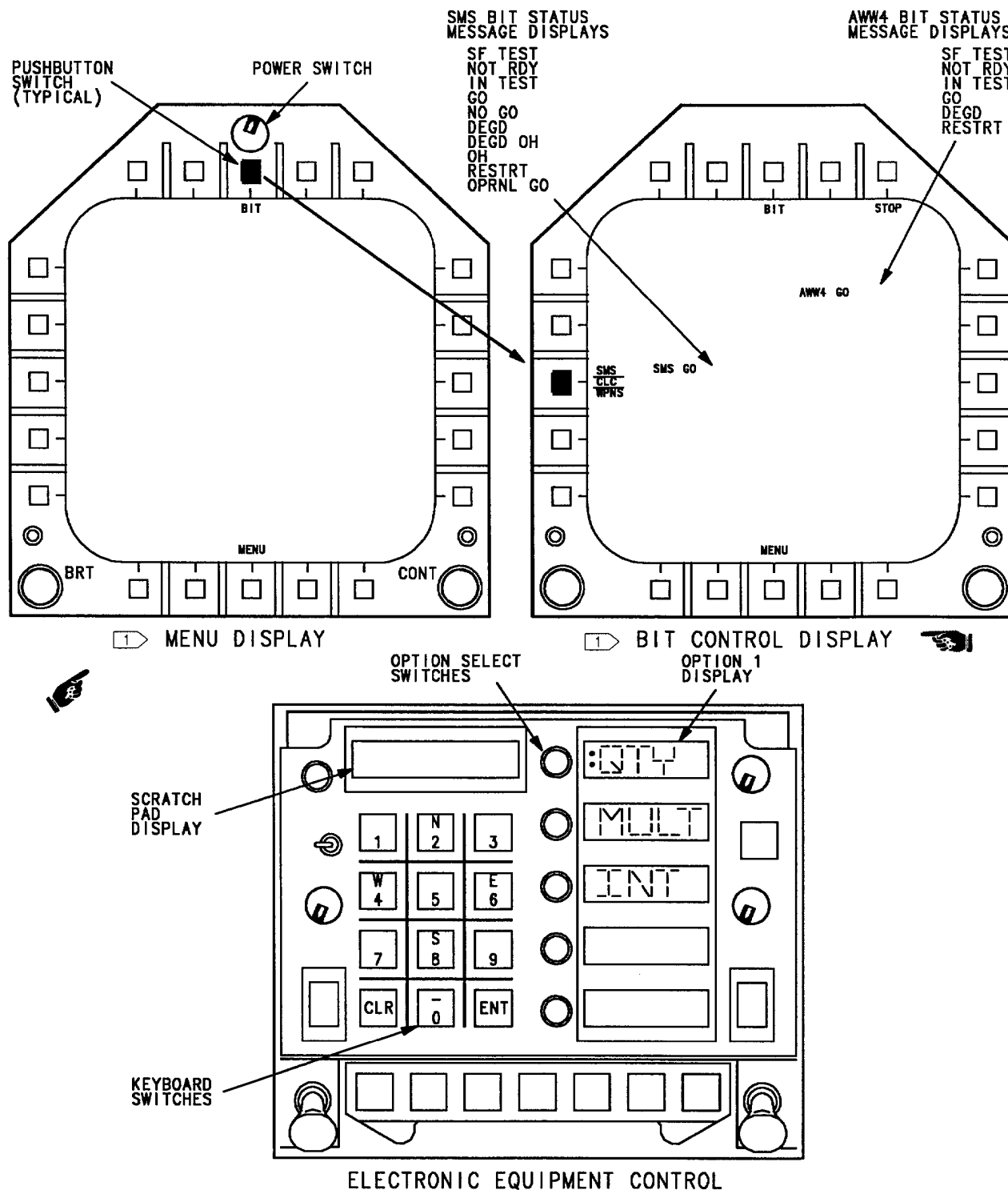


Figure 1. Test Displays (Sheet 1)

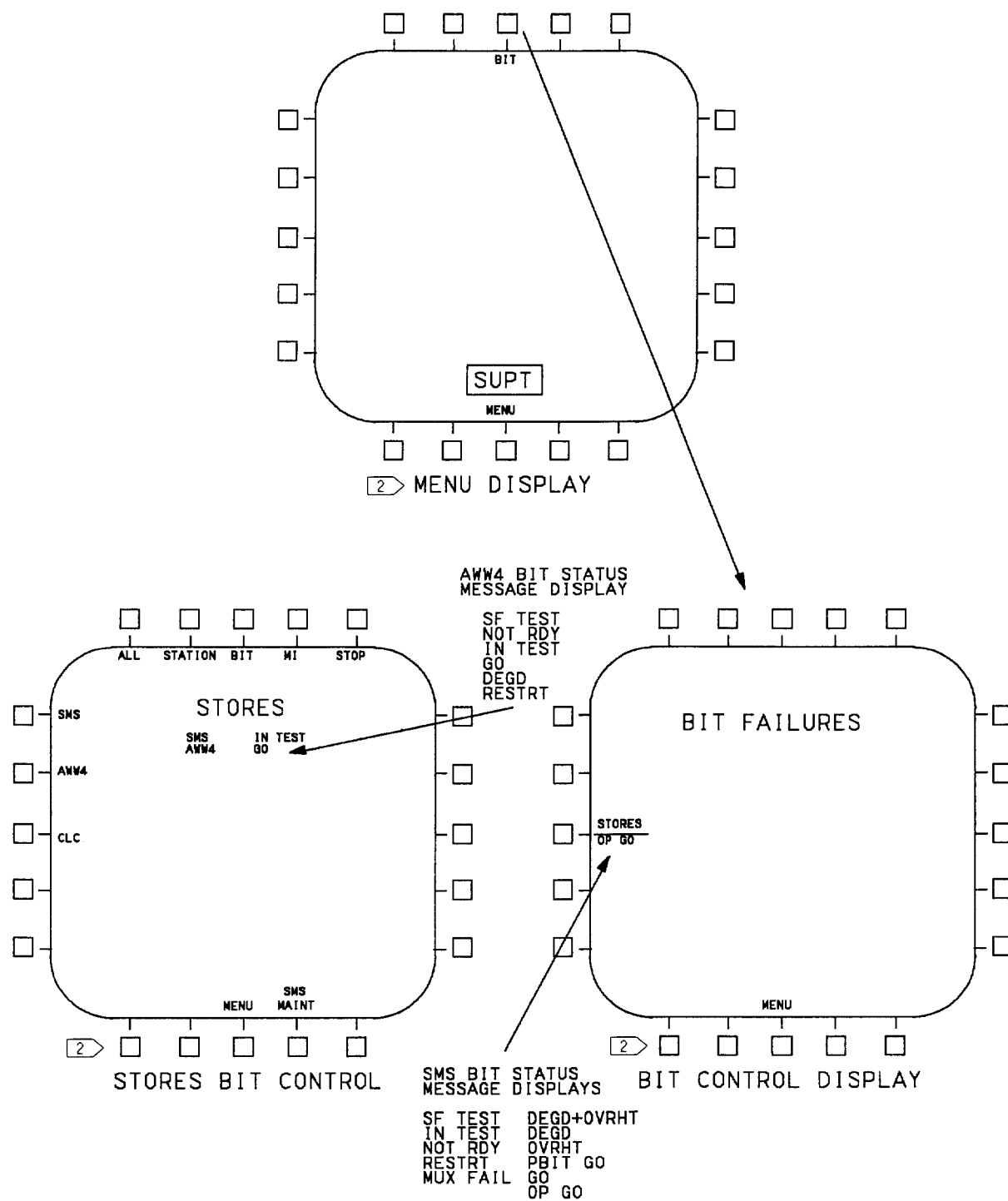


Figure 1. Test Displays (Sheet 2)

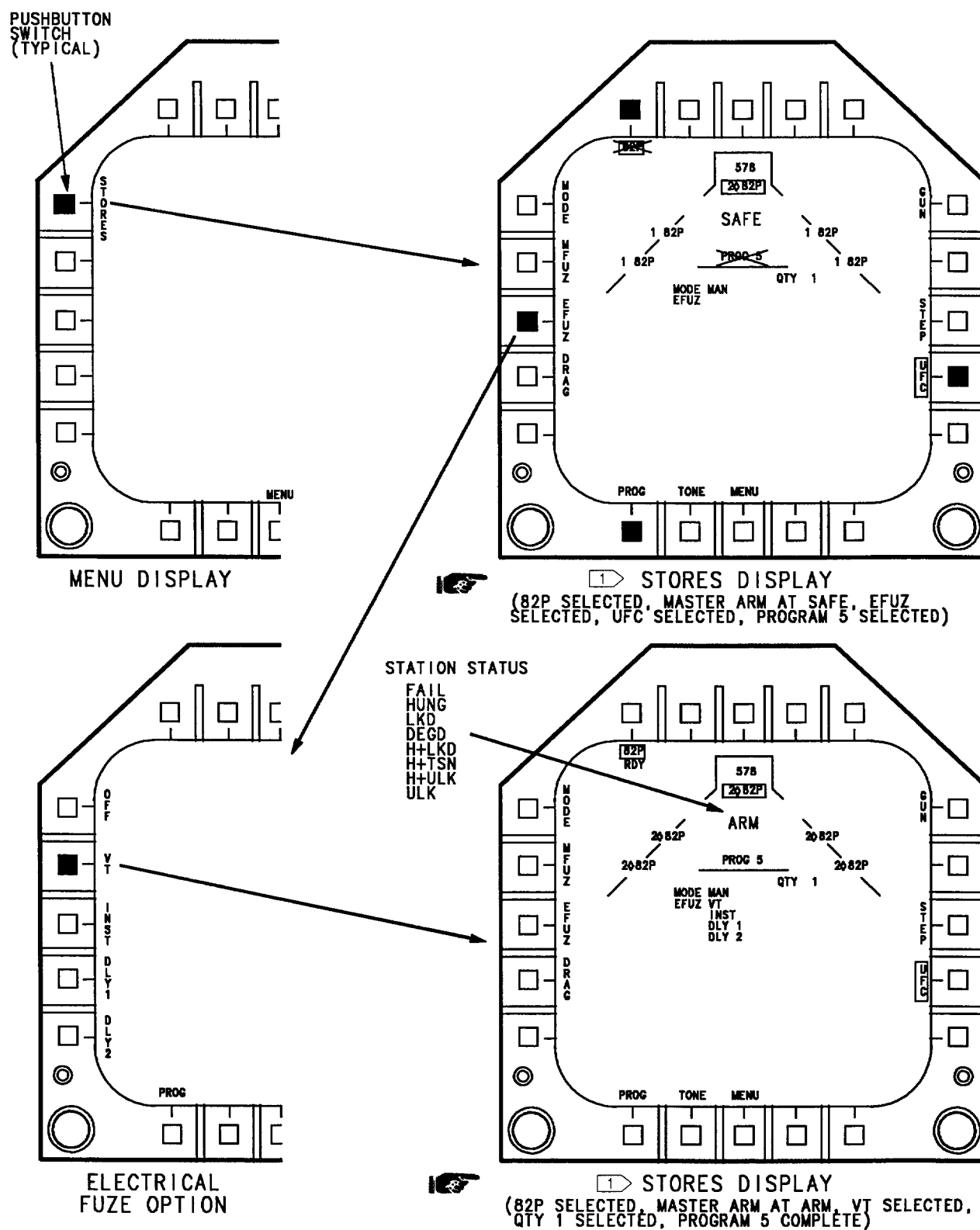


Figure 1. Test Displays (Sheet 3)

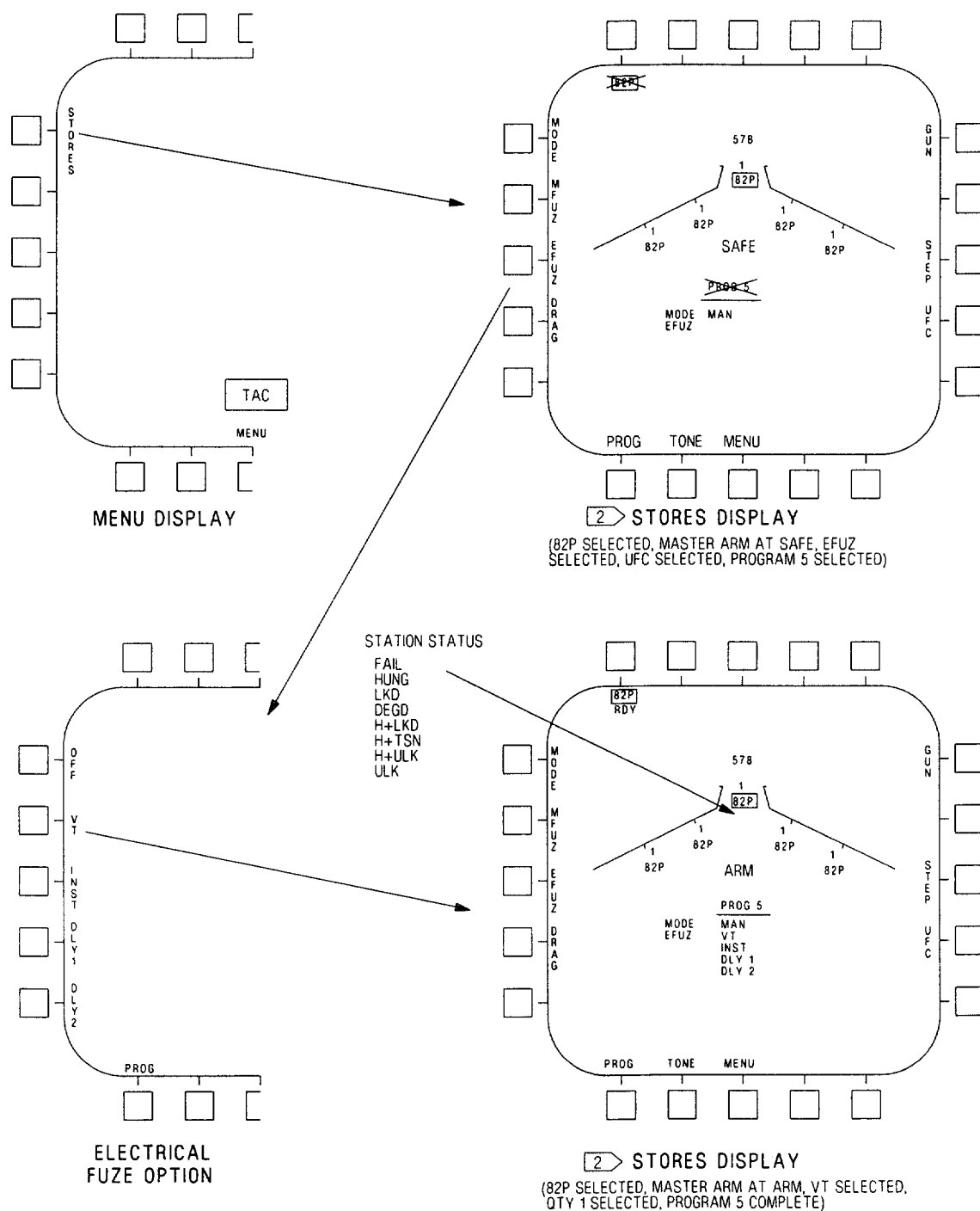


Figure 1. Test Displays (Sheet 4)

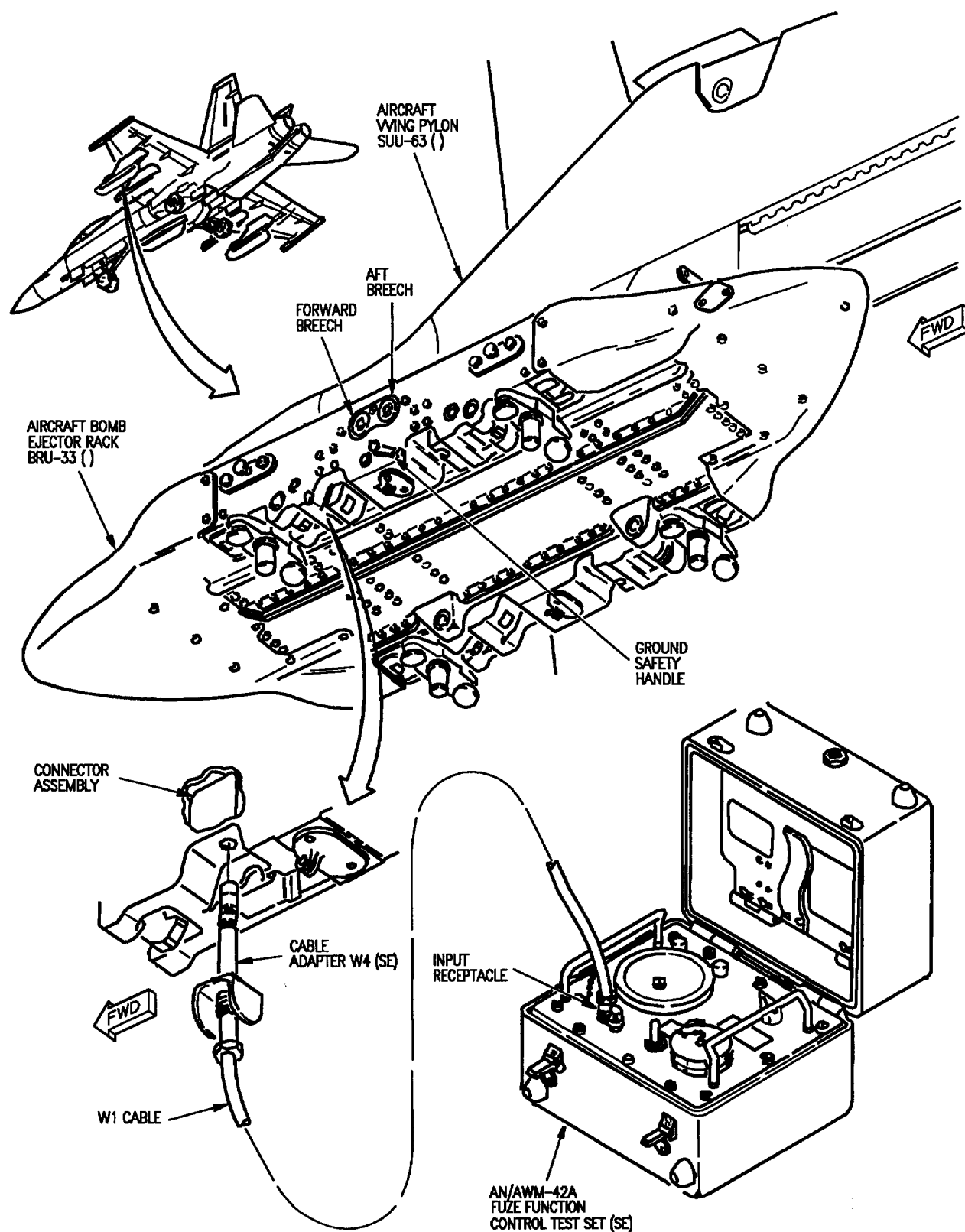


Figure 2. Test Equipment Hookup



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIRCRAFT BOMB EJECTOR RACK BRU-33( ) ELECTRICAL FUZING TEST

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 162394 AND UP; ALSO 161353 THRU 161987 AFTER F18 AFC 37

## Reference Material

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
 Line Maintenance Access Doors ..... A1-F18AC-LMM-010  
 Weapon Control System ..... A1-F18AC-740-200  
 Stores Management System and Suspension and Release Mechanisms Locator ..... WP007 00

## Alphabetical Index

## Subject

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 37	11 Feb 84	Deletion of Landing Gear Handle Logic From AN/AWW-4 Electrical Fuzing System (ECP MDA-F18-00113)	15 Jun 84	-
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. VOLT-OHM METER Does Not Indicate In Green Area

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Electrical Fuzing Schematic (A1-F18AC-740-500, WP074 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-33( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) <div><div>2</div>BRU-33 Centerline Jumper Cable W56226</div> <div><div>2</div>BRU-33 Wing Pylon Jumper Cable W56232</div> <div><div>1</div>Cable Assembly JBV-1 or JBV-2</div> <div>Connector Plate Assembly</div> <div>Electrical Fuzing Power Supply PP-6419/AWW-4(V)</div> <div>No. 8 Circuit Breaker/Relay Panel Assembly</div> <div>No. 2 Relay Panel Assembly</div>		
Procedure	No	Yes
<div><div>CAUTION</div><p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p><p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p><p>52P-C159G</p></div>		



Table 1. VOLT-OHM METER Does Not Indicate In Green Area (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps below:		
<p style="text-align: center;"><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p>		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 13L (A1-F18AC-LMM-010).		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div>		
<p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(3) Connect proximity switch control (A1-F18AC-LMM-000).		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) ON GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) On proximity switch control, set LEFT, RIGHT, and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(7) Does 115vac exist at $\phi A$ , $\phi B$ , and $\phi C$ test points on front panel of Electrical Fuzing Power Supply PP-6419/AWW-4(V)? .....	b	d
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-E009A from Electrical Fuzing Power Supply PP-6419/AWW-4(V).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		

Table 1. VOLT-OHM METER Does Not Indicate In Green Area (Continued)

Procedure	No	Yes
(4) Does 115vac exist at 61P-E009A pins m, f and g? .....	c	e
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C159G from no. 8 circuit breaker/relay panel assembly.		
(4) Does continuity exist from:		
52P-C159G pin 11 to 61P-E009A pin m		
52P-C159G pin 12 to 61P-E009A pin f		
52P-C159G pin 22 to 61P-E009A pin g? .....	g	h
d. Does 28vdc exist at 28VDC and GND test points on front panel of Electrical Fuzing Power Supply PP-6419/AWW-4(V)? .....	f	k
e. Replace Electrical Fuzing Power Supply PP-6419/AWW-4(V) (A1-F18AC-740-300, WP012 00) and do step w .....	-	-
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-E009A from Electrical Fuzing Power Supply PP-6419/AWW-4(V).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Does 28vdc exist at 61P-E009A pin B? .....	i	e
g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step w .....	-	-
h. Isolate malfunction between no. 8 circuit breaker/relay panel assembly wiring and 61CBC048, 61CBC049 or 61CBC050 (A1-F18AC-420-300, WP030 00) and do step w .....	-	-
i. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) Does continuity exist from 61P-E009A pin B to 61P-F001B pin 110? .....	g	j
j. Malfunction is caused by Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step w .....	-	-

Table 1. VOLT-OHM METER Does Not Indicate In Green Area (Continued)

Procedure	No	Yes
<p>k. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-E009A from Electrical Fuzing Power Supply PP-6419/AWW-4(V).</p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: fit-content;"> <b>WARNING</b> </div> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p> <p>(3) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1 and 2 switches to B ON for 3 seconds.</p> <p>(6) On proximity switch control, set LEFT, RIGHT, and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(7) Does continuity exist from 61P-E009A pin GG and aircraft ground? . . . . .</p>	l	n
<p>l. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-F058C from no. 2 relay panel assembly.</p> <p>(4) Does continuity exist from 61P-E009A pin GG to 52P-F058C pin 32? . . . . .</p>	g	m
<p>m. Isolate malfunction between no. 2 relay panel assembly wiring and 12K-F024 relay (A1-F18AC-420-300, WP032 00) and do step w . . . . .</p>	-	-
<p>n. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-E009B from Electrical Fuzing Power Supply PP-6419/AWW-4(V).</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p>		

Table 1. VOLT-OHM METER Does Not Indicate In Green Area (Continued)

Procedure	No	Yes
<p>(5) On proximity switch control, set LEFT, RIGHT, and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(6) Do the electrical fuzing test steps to select display and PROG 5 for VT, INST, DLY 1, or DLY 2 fuzing, table 1 (WP024 00).</p> <p>(7) Press and hold A/G weapon release switch on aircraft controller grip assembly. Does 195 <del>4</del>vdc or 300 <del>4</del>vdc exist at 1J2 pin B? .....</p> <p>o. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 509 on centerline pylon (A1-F18AC-LMM-010).</p> <p>(3) Open door 502 on wing pylon (A1-F18AC-LMM-000).</p> <p>(4) Disconnect 61P-Y100B from Aircraft Bomb Ejector Rack BRU-33( ).</p>	v	o
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>(5) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(6) Connect 61P-E009B to Electrical Fuzing Power Supply PP-6419/AWW-4(V).</p> <p>(7) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(8) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(9) On proximity switch control, set LEFT, RIGHT, and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(10) Do the electrical fuzing test steps to select display and PROG 5 for VT, INST, DLY 1, or DLY 2 fuzing, table 1 (WP024 00).</p> <p>(11) On aircraft controller grip, press and hold A/G weapon release switch.</p> <p>(12) Does 195 <del>4</del>vdc or 300 <del>4</del>vdc exist at 61P-Y100B pin B? .....</p> <p>p. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>	p	u

Table 1. VOLT-OHM METER Does Not Indicate In Green Area (Continued)

Procedure	No	Yes
(2) On Aircraft Wing Pylon SUU-63( ), do substeps below:		
(a) Open door 502 (A1-F18AC-LMM-000).		
(b) Disconnect 61P-Y102 from 61J-W102 on pylon stores electrical disconnect panel.		
(c) Does continuity exist from 61P-Y102 pin B and 61P-Y100B pin B? .....	q	r
(3) On Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps below:		
(a) Open door 510 (A1-F18AC-LMM-010).		
(b) Disconnect 61P-Y102 from 61J-Z162 on connector plate assembly.		
(c) Does continuity exist from 61P-Y102 pin B and 61P-Y100B pin B? .....	q	r
q. Replace cable assembly <input type="checkbox"/> JBV-1 or JBV-2 <input type="checkbox"/> or W56226 or W56232 (A1-F18AC-740-300, WP028 00) and do step w .....	-	-
r. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(5) On proximity switch control, set LEFT, RIGHT, and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(6) Do the electrical fuzing test steps to select display and PROG 5 for VT, INST, DLY 1, or DLY 2 fuzing, table 1 (WP024 00).		
(7) On aircraft controller grip, press and hold A/G weapon release switch.		
(8) On wing pylon, does 195 <del>4</del> vdc or 300 <del>4</del> vdc exist at:		
Station 7 : 52J-V067 pin 142		
Station 8 : 52J-V068 pin 142		
Station 2 : 52J-U062 pin 142		
Station 3 : 52J-U063 pin 142? .....	g	s
(9) On centerline pylon, does 195 <del>4</del> vdc or 300 <del>4</del> vdc exist at 61P-R162 pin B? .....	g	t

Table 1. VOLT-OHM METER Does Not Indicate In Green Area (Continued)

Procedure	No	Yes
s. Replace Aircraft Wing Pylon SUU-63( ), (A1-F18AC-740-300, WP034 00) and do step w . . . . .	-	-
t. Replace connector plate assembly, (A1-F18AC-740-300, WP036 00) and do step w . . . . .	-	-
u. Replace Aircraft Bomb Ejector Rack BRU-33( ) (A1-F18AC-740-300, WP028 00) and do step w . . . . .	-	-
v. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove HIGH VOLTAGE ADJUST cover from Electrical Fuzing Power Supply PP-6419/AWW-4(V).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Adjust 300V R1 or 195V R2 to correct voltage at <del>±</del> HV and GND test points or replace Electrical Fuzing Power Supply PP-6419/AWW-4(V) (A1-F18AC-740-300, WP012 00) and do step w . . . . .	-	-
w. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-E009A		
(2) 61P-E009B		
(3) 61P-Y100B		
(4) 61P-Y102		
(5) 52P-F058C		
(6) 61P-F001B		
(7) 52P-C159G		
(8) Door 509 or 510		
(9) Door 502		
(10) Door 13L		
(11) Door 14R		
(12) Door 10L		
(13) HIGH VOLTAGE ADJUST cover		

Table 1. VOLT-OHM METER Does Not Indicate In Green Area (Continued)

Procedure	No	Yes
(14) Connector plate assembly		
(15) Aircraft Wing Pylon SUU-63( ) . . . . .	-	-
<b>LEGEND</b>		
1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		





## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - AGM-65E LASER MAVERICK WEAPON SYSTEM TEST

## SUSPENSION AND RELEASE MECHANISMS

### Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control System .....	A1-F18AC-740-200
Initiated Built-In Test .....	WP009 00
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00
Weapon Control System .....	A1-F18AC-740-500
Reference Tables .....	WP009 00

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Test Equipment Hookup, Figure 3 .....	23
Video Displays, Figure 2 .....	22

### Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 57	-	Improved Aircraft Monitor and Control (AMAC), Installation of (ECP MDA-F/A-18A-00087)	15 Jan 87	ECP coverage only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Maverick Weapon System Test

Procedure	Normal Indication	Remedy for Abnormal Indication						
<div>System Required Components</div> <div>All system components installed.</div> <div>Related Systems Required</div> <div>Avionics Cooling System Electrical System Maintenance Status Display and Recording System Mission Computer System Multipurpose Display Group</div> <div>Support Equipment Required</div> <table><thead><tr><th>Part Number or Type Designation</th><th>Nomenclature</th></tr></thead><tbody><tr><td>1328AS100</td><td>Aircraft Weapon Control Test Set (AN/AWM-92)</td></tr><tr><td>74D420030-1001</td><td>Proximity Switch Control</td></tr></tbody></table> <div>Materials Required</div> <div>None</div> <div>NOTE</div> <div>Test results will be invalid if the following support equipment change code is not listed on the AN/AWM-92 Support Equipment Change Plate.</div> <div><div>1</div> 5018      <div>2</div> 5177</div> <div>Component locations are shown in WP007 00.</div> <div>Test displays are shown in figure 1.</div> <div>Video displays are shown in figure 2.</div> <div>Test equipment hookup is shown in figure 3.</div> <div>For the remainder of this test, test set refers to Aircraft Weapon Control Test Set (AN/AWM-92).</div>			Part Number or Type Designation	Nomenclature	1328AS100	Aircraft Weapon Control Test Set (AN/AWM-92)	74D420030-1001	Proximity Switch Control
Part Number or Type Designation	Nomenclature							
1328AS100	Aircraft Weapon Control Test Set (AN/AWM-92)							
74D420030-1001	Proximity Switch Control							
1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).								

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p style="text-align: center;">To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.</p>		
<p>a. Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>b. Make sure all weapons are removed from aircraft.</p> <p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116/( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER), BRU-41/BRU-42 if installed on aircraft.</p> <p>g. Make sure gun electrical signal safety switch is set to safe (extended) position, aft of door 6.</p> <p>h. Make sure gun holdback mechanism handle is set to cleared; gun holdback handle indicator (extended).</p> <p>i. Make sure all explosive cartridges are removed from AN/ALE-39 dispensers if installed on aircraft.</p> <p>j. Make sure AN/ALE-39 dispensers are removed from aircraft.</p>		

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>2. TEST SET HOOKUP (SELF TEST).</p> <p>a. Remove W1 test cable, W2 power cable, W13 power adapter, W4 test cable, and W5 ground strap from test set accessory container.</p>		
<div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p style="text-align: center;">To prevent injury to personnel and/or damage to aircraft or test equipment, test set must be grounded to aircraft.</p>		
<p>b. Connect screw end of W5 ground strap to ground lug of test set.</p> <p>c. Connect clamp end of W5 ground strap to any aircraft ground.</p> <p>d. Connect P2 of W2 power cable to J2 of test set.</p> <p>e. Connect P1 of W2 power cable to P1 of W13 power adapter.</p> <p>f. Connect P2 of W13 power adapter to aircraft UTILITY PWR RECP 1J-G089 in nose wheelwell on left side.</p> <p>g. Connect P1 of W1 test cable to J1 of test set.</p> <p>h. Connect P2 of W1 test cable to J3 of test set.</p>		
<p>3. PRELIMINARY.</p> <p>a. Open door 14R (A1-F18AC-LMM-010).</p> <p>b. On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 65 and FUZING N and T switches to zero for station under test.</p> <p>c. On station under test, close hooks on Aircraft Bomb Ejector Rack BRU-32( ) and set ground safety handle to LOCKED.</p>		

Table 1. Maverick Weapon System Test (Continued)


Procedure	Normal Indication	Remedy for Abnormal Indication
<p>d. If BRU-33, MER,  BRU-41/BRU-42 or empty BRU-32( ) is installed, open hooks and set applicable ARMAMENT switches to 00. Set remaining FUZING switches to zero.</p> <p>e. If non-droppable store installed, set applicable ARMAMENT switches to correct code for store (Table 1, A1-F18AC-740-500, WP009 00).</p> <p>f. On Aircraft Guided Missile Launcher LAU-116( ), make sure all launcher hooks are closed and SAFETY RELEASE knob is rotated clockwise.</p> <p>g. Do nose wheelwell digital display indicator built-in test/reset procedure (A1-F18AC-LMM-000).</p>	SAFETY RELEASE INDICATOR shows GREEN hooks locked.	<p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If knob will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>h. Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>i. On 161925 AND UP; ALSO 161353 THRU 161924 AFTER AFC 57; RH console: Make sure release consent panel is installed.</p> <p>j. Apply electrical power (A1-F18AC-LMM-000).</p> <p>k. Connect ground intercommunications (A1-F18AC-LMM-000).</p>		

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
4. TEST SET, SELF TEST.  a. On test set, set AC POWER switch to ON and do substeps listed below for self test:	1. Test set AC POWER light comes on and remains on.  2. Test set VALUE display counts up to 128.  3. Test set keyboard (key), RESET, LAMP TEST, KYBD TEST, ACFT TYPE, CLEAR and 0 through 9 lights come on.	Do table 1 (WP031 02).  Repair or replace test set.  Repair or replace test set.
<b>NOTE</b>  Test set key, RESET light remains on throughout test. Test set keys RPT, CLEAR, and 0 through 9 come on at various times during the test. Unless specifically called out these lights are ignored.		
(1) Set INTENSITY switch to HIGH.  (2) Press and release LAMP TEST key.	All key lights come on, one section of 12 keys at a time, starting with left section. Test set VALUE and STEP display displays decimal point, plus/minus sign and then steps through all segments of display by sequencing through all digits 0 through 9.	Repair or replace test set.
<b>NOTE</b>  During keyboard test, keys come on one at a time and go off when key is pressed.		
(3) Press and release KYBD TEST key.	Key light comes on.	Repair or replace test set.
(4) On test set, press and release lit key.	Key light goes off.	Repair or replace test set.
(5) Repeat step (4) until all key lights are tested.		
(6) Press and release ACFT TYPE key.	Test set, RUN, and RESET key lights come on.	Repair or replace test set.

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p style="text-align: center;"><b>NOTE</b></p> <p>Test Set self test runs approximately 2 minutes, at end of test 0 appears in the STEP and VALUE display and key UUT GO light comes on.</p>		
<p>(7) Press and release RUN key.</p> <p>b. On test set, set AC POWER switch to OFF.</p> <p>c. Disconnect P1 and P2 of W1 test cable from test set.</p> <p>5. TEST SET HOOKUP (AIRCRAFT TEST).</p> <p>a. Connect P1 of W4 test cable to J1 of test set.</p> <p>b. On station being tested, if not installed, install Maverick Jumper Cable W56227 by connecting 61P-W102 to 61J-W102, 61P-W112 to 61J-W112 and 61P-W096 to 61J-W096.</p> <p>c. Connect P2 of W4 test cable to 61P-W099A of Maverick Jumper Cable W56227.</p> <p>6. BIT AND MAVERICK INTERFACE.</p> <p>a. On SNSR pod control box panel assembly, make sure RADAR switch is OFF.</p>	<p>1. Test set STEP display, cycles through test steps. The TIP key light comes on during test.</p> <p>2. STEP GO key comes on when steps pass.</p> <p>3. VALUE display indicates 0 and UUT GO light comes on.</p>	<p>Repair or replace test set.</p>

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p style="text-align: center;"><b>NOTE</b></p> <p>If a malfunction occurs during this test, make sure circuit breakers shown in WP008 00 are closed.</p>		
b. On GND PWR control panel assembly, set and hold 1 and 2 switches to B ON for 3 seconds.	Switches remain on (latched).	<p>1. If switches unlatch in 10 to 30 seconds, apply external cooling air to aircraft (A1-F18AC-LMM-000).</p> <p>2. If switches will not remain on, do GND PWR Switching System Test (A1-F18AC-420-200, WP006 00).</p> <p>3. If one, but not all switches, remains on, replace GND PWR Control Panel Assembly (A1-F18AC-420-300, WP023 00).</p>
c. On MC/HYD ISOL control panel assembly, set MC switch to NORM.		
d. On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.	<p>1. LDDI and RDDI have display and center pushbutton switch on bottom row is labeled MENU.</p> <p>2. LDDI has cautions and advisories displayed.</p>	<p>1. No display on LDDI, on F/A-18A, do table 1 (A1-F18AC-745-200, WP006 00). On F/A-18B, do table 1 (A1-F18AC-745-200, WP007 00).</p> <p>2. No display on RDDI, on F/A-18A, do table 2 (A1-F18AC-745-200, WP006 00). On F/A-18B, do table 2 (A1-F18AC-745-200, WP007 00).</p> <p>3. If STANDBY is displayed, on F/A-18A, do table 2 (A1-F18AC-745-200, WP004 00). On F/A-18B, do table 2 (A1-F18AC-745-200, WP005 00).</p> <p>4. If BRT or CONT controls do not affect display, replace left or right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>



Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
e. On Horizontal Indicator (HI) set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.	HI has HSI display.	1. No display on HI: F/A-18A do table 3 (A1-F18AC-745-200, WP006 00). F/A-18B do table 3 (A1-F18AC-745-200, WP007 00).  2. If BRT or CONT controls do not affect display, replace Horizontal Indicator: (A1-F18AC-745-300, WP006 00).
f. On headup display unit (HUD), turn BRT control cw from OFF position and set HUD DAY/NIGHT control to DAY or NIGHT. Allow 2 minute warmup and adjust BRT control for best display.	HUD has display.	1. No display on HUD: F/A-18A, do table 4 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 4 (A1-F18AC-745-200, WP007 00).  2. If BRT control does not affect display, replace HUD (A1-F18AC-745-300, WP003 00).
g. On test set, set AC POWER switch to ON.	1. Test set, AC POWER light comes on and remains on.  2. Test set VALUE display counts up to 128.  3. Test set keyboard (key), RESET, LAMP TEST, KYBD TEST, ACFT TYPE, CLEAR and 0 through 9 lights come on.	Do table 1 (WP031 02).  Repair or replace test set.  Repair or replace test set.
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If improper entry is made press CLEAR key and repeat step.</p>		
h. On test set, <input type="button" value="1"/> press 1 and 8 keys or, <input type="button" value="2"/> press 1, 8 and 3 keys.	Test set, VALUE display indicates <input type="button" value="1"/> 18, or <input type="button" value="2"/> 183.	Repair or replace test set.
i. On test set, press and release ACFT TYPE key.	Test set, RUN key light comes on.	Repair or replace test set.
j. On test set, press and release RUN key.	Test set, STEP display indicates 100 and VALUE display indicates 1. MNL ACTN and RUN key lights come on.	Repair or replace test set.
k. On RDDI press and release MENU pushbutton switch until BIT pushbutton option is displayed.	Menu display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
1. On RDDI, press and release BIT pushbutton switch.	BIT control display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
<p style="text-align: center;"><b>NOTE</b></p> <p>After completion of Initiated Built-In Test (BIT), 1, 2 and 3 switches are left at B ON to continue with this test.</p>		
m. Do Initiated Built-In Test steps 3 and 4 (WP009 00).		
7. RELEASE PROCEDURES.		
<p style="text-align: center;"><b>NOTE</b></p> <p>In the following procedures, the RCL FAIL key recalls the step and associated value of faults detected during testing. Before using RCL FAIL, record the number displayed in the VALUE display. This is the number of faults detected during testing. The RCL FAIL key recalls one fault each time it is pressed and released.</p> <p>During this test, if a fault is detected and remedy refers to a table, do not shut down system or remove test set. Do applicable troubleshooting table.</p>		
a. On RDDI press and release MENU pushbutton switch until STORES pushbutton option is displayed.	Menu display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
b. On RDDI press and release STORES pushbutton switch.	1. Stores display appears with 1 MAV under test station.	1. Transfer display to LDDI, if display is correct replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
		2. Station 2: Do table 1 (WP010 23).
		Station 3: Do table 1 (WP010 25).
		Station 7: Do table 1 (WP010 28).
		Station 8: Do table 1 (WP010 29).
	2. SAFE displayed on RDDI.	Do table 2 (WP010 17).

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
c. On test set, press and release RUN key.	Test set, STEP display indicates 100 and VALUE display indicates 0. STEP GO and RUN key lights come on.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 1 (WP025 02).
d. On test set, press and release RUN key.	Test set, STEP display indicates 200 and VALUE display indicates 1. MNL ACTN and RUN key lights come on.	Repair or replace test set.
e. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
f. On master arm control panel assembly, press and release A/G switch.	A/G indicator light comes on.	On F/A-18A, do table 1, (WP010 34). On F/A-18B, do table 2, (WP010 34).
g. On RDDI, press and release MAV pushbutton switch.	1. Maverick display appears with MAV boxed and not ready X through it.  2. After 10 seconds RDDI displays straight grid lines with no vertical roll or horizontal tearing and 7 shades of video in upper half of display.	Transfer display to LDDI, if display is correct replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).  1. Transfer display to LDDI, if display is correct replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00). 2. Do table 6, WP025 05.
h. On aircraft controller grip assembly, push sensor control to the right and release (TDC assigned to RDDI).	On RDDI, TDC diamond appears in upper right hand corner of display.	1. Transfer display to LDDI, if display is correct replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00). 2. Do table 2, WP010 05.
i. On RDDI, press and release DLY 2 pushbutton switch.	On RDDI, DLY 2 boxed.	Transfer display to LDDI, if display is correct replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
j. On LDDI, press and release MENU pushbutton switch until STORES pushbutton option is displayed.	Menu display appears on LDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
k. On LDDI, press and release STORES pushbutton option.	STORES display appears, MAV boxed with not ready X through it and 1 MAV boxed in the wingform.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
l. On master arm control panel assembly, set MASTER switch to ARM.	MASTER switch remains in ARM.	Replace Master Arm Control Panel Assembly (A1-F18AC-740-300, WP013 00).
m. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.	1. Switch remains engaged. 2. ARM is displayed on LDDI.	Do table 1 (WP012 00). Do table 1 (WP010 17).
n. On test set, press and release RUN key.	On test set, STEP display indicates 200 and VALUE display indicates 2. MNL ACTN and RUN key lights come on.	Repair or replace test set.
<b>NOTE</b>		
Step p must be accomplished within 60 seconds of doing step o.		
o. On test set, press and release RUN key.	On test set, STEP display indicates 200 and VALUE display indicates 2. TIP key light comes on.	Repair or replace test set.
p. On right throttle grip, press and release cage/uncage switch.	On LDDI, RDY displayed under MAV and not ready X removed. On RDDI, UNCAGED displayed under TDC diamond.	Do table 1 (WP012 00).
q. On right throttle grip, press and release TDC switch.	On test set, STEP display indicates 200 and VALUE display indicates 0. STEP GO and RUN lights come on.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 1 (WP025 02).
r. On test set, press and release RUN key.	On test set, STEP display indicates 400 and VALUE display indicates 1. MNL ACTN and RUN lights come on.	Repair or replace test set.
s. On RDDI, press and release UFC pushbutton switch.	Electronic Equipment Control displays CODE.	Replace Electronic Equipment Control (A1-F18AC-741-300, WP006 00).
<b>NOTE</b>		
Step u and v must be accomplished within 30 seconds of doing step t.		
t. On Electronic Equipment Control press and release key board switches 1, 2, 2, and 2.	On Electronic Equipment Control scratch pad 1222 is displayed.	Replace Electronic Equipment Control (A1-F18AC-741-300, WP006 00).

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>u. On test set, press and release RUN key.</p> <p>v. On Electronic Equipment Control, press and release ENT switch.</p> <p>w. On RDDI, press and release UFC pushbutton switch.</p>	<p>1. On RDDI, 1222 displayed below UFC.</p> <p>2. On test set, STEP display indicates 400 and VALUE display indicates 2. MNL ACTN and RUN key lights come on.</p> <p>Electronic Equipment Control displays CODE.</p>	<p>Replace Electronic Equipment Control (A1-F18AC-741-300, WP006 00).</p> <p>Repair or replace test set.</p> <p>Replace Electronic Equipment Control (A1-F18AC-741-300, WP006 00).</p>
<b>NOTE</b>		
Steps y and z must be accomplished within 30 seconds of doing step x.		
<p>x. On Electronic Equipment Control press and release key board switches 1, 3, 3, and 3.</p> <p>y. On test set, press and release RUN key.</p> <p>z. On Electronic Equipment Control, press and release ENT switch.</p> <p>aa. On test set, press and release RUN key.</p> <p>ab. On aircraft controller grip assembly, push sensor control switch forward (assign TDC to HUD).</p> <p>ac. On right throttle grip, press and release CAGE/UNCAGE switch.</p>	<p>On Electronic Equipment Control scratch pad 1333 is displayed.</p> <p>1. On RDDI, 1333 displayed below UFC.</p> <p>2. On test set, STEP display indicates 400 and VALUE display indicates 0. STEP GO and RUN key lights come on.</p> <p>On test set, STEP display indicates 800 and VALUE display indicates 1. MNL ACTN and RUN key lights come on.</p> <p>On HUD display, dot appears in target designator diamond.</p> <p>On RDDI, CAGED is displayed.</p>	<p>Replace Electronic Equipment Control (A1-F18AC-741-300, WP006 00).</p> <p>Replace Electronic Equipment Control (A1-F18AC-741-300, WP006 00).</p> <p>Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 1 (WP025 02).</p> <p>Repair or replace test set.</p> <p>1. Transfer display to LDDI. If display is correct, replace HUD (A1-F18AC-745-300).</p> <p>2. Do table 2, (WP010 05).</p> <p>Replace RDDI (A1-F18AC-745-300, WP004 00).</p>

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
ad. On right throttle grip assembly, press and release TDC switch.	On HSI display, TGT boxed.	1. Do Throttle Designator Control Functional test:  <div>3</div> F/A-18A BEFORE F/A-18 AFC 292 and F/A-18B, do table 1, (A1-F18AC-742-200, WP012 00)  <div>4</div> F/A-18 AFTER F/A-18 AFC 292, do table 1 (A1-F18AH-742-200, WP012 00).  2. Replace HUD (A1-F18AC-742-300, WP003 00).
ae. On right throttle grip assembly, move TDC switch full left and release.	On HUD, target designator diamond moves left.	Do Throttle Designator Control Functional test:  <div>3</div> F/A-18A BEFORE F/A-18 AFC 292 and F/A-18B, do table 1, (A1-F18AC-742-200, WP012 00)  <div>4</div> F/A-18 AFTER F/A-18 AFC 292, do table 1 (A1-F18AH-742-200, WP012 00).
af. On test set, press and release RUN key.	On test set, STEP display indicates 800 and VALUE display indicates 2. MNL ACTN and RUN key lights come on.	Repair or replace test set.
ag. On right throttle grip assembly, move TDC switch full right and release.	On HUD, target designator diamond moves right.	Do Throttle Designator Control Functional test:  <div>3</div> F/A-18A BEFORE F/A-18 AFC 292 and F/A-18B, do table 1, (A1-F18AC-742-200, WP012 00)  <div>4</div> F/A-18 AFTER F/A-18 AFC 292, do table 1 (A1-F18AH-742-200, WP012 00).
ah. On test set, press and release RUN key.	On test set, STEP display indicates 800 and VALUE display indicates 3. MNL ACTN and RUN key lights come on.	Repair or replace test set.
ai. On right throttle grip assembly, move TDC switch full forward and release.	On HUD, target designator diamond moves down.	Do Throttle Designator Control Functional test:  <div>3</div> F/A-18A BEFORE F/A-18 AFC 292 and F/A-18B, do table 1, (A1-F18AC-742-200, WP012 00)  <div>4</div> F/A-18 AFTER F/A-18 AFC 292, do table 1 (A1-F18AH-742-200, WP012 00).

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
aj. On test set, press and release RUN key.	On test set, STEP display indicates 800 and VALUE display indicates 4. MNL ACTN and RUN key lights come on.	Repair or replace test set.
ak. On right throttle grip assembly, move TDC switch full aft and release.	On HUD, target designator diamond moves up.	Do Throttle Designator Control Functional test:  <div>3</div> F/A-18A BEFORE F/A-18 AFC 292 and F/A-18B, do table 1, (A1-F18AC-742-200, WP012 00)  <div>4</div> F/A-18 AFTER F/A-18 AFC 292, do table 1 (A1-F18AH-742-200, WP012 00).
al. On test set, press and release RUN key.	On test set, STEP display indicates 800 and VALUE display indicates 0. STEP GO and RUN key lights come on.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 1 (WP025 02).
am. On test set, press and release RUN key.	On test set, STEP display indicates 900 and VALUE display indicates 1. MNL ACTN and RUN key lights come on.	Repair or replace test set.
an. On HSI display, press and release TGT pushbutton switch.	On HSI display, box removed from TGT and <div>2</div> WYPT is displayed.	Replace HSI, (A1-F18AC-742-300, WP006 00).
ao. On aircraft controller grip assembly, push sensor control to the right and release (TDC assigned to RDDI).	On RDDI, TDC diamond appears in upper right hand corner of display.	1. Transfer display to LDDI. If display is correct, replace HUD (A1-F18AC-745-300, WP003 00).  2. Do table 2 (WP010 05).
ap. On right throttle grip assembly, press and hold TDC switch, than move full left and hold.	On HUD, maverick line of sight symbol moves left.	Do Throttle Designator Control Functional test:  <div>3</div> F/A-18A BEFORE F/A-18 AFC 292 and F/A-18B, do table 1, (A1-F18AC-742-200, WP012 00)  <div>4</div> F/A-18 AFTER F/A-18 AFC 292, do table 1 (A1-F18AH-742-200, WP012 00).
aq. On test set, press and release RUN key.	On test set, STEP display indicates 900 and VALUE display indicates 2. MNL ACTN and RUN key lights come on.	Repair or replace test set.

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
ar. On right throttle grip assembly, move TDC switch full right and hold.	On HUD, maverick line of sight symbol moves right.	Do Throttle Designator Control Functional test:  <div>3</div> F/A-18A BEFORE F/A-18 AFC 292 and F/A-18B, do table 1 (A1-F18AC-742-200, WP012 00)  <div>4</div> F/A-18 AFTER F/A-18 AFC 292, do table 1 (A1-F18AH-742-200, WP012 00).
as. On test set, press and release RUN key.	On test set, STEP display indicates 900 and VALUE display indicates 3. MNL ACTN and RUN key lights come on.	Repair or replace test set.
at. On right throttle grip assembly, move TDC switch full forward and hold.	On HUD, maverick line of sight symbol moves down.	Do Throttle Designator Control Functional test:  <div>3</div> F/A-18A BEFORE F/A-18 AFC 292 and F/A-18B, do table 1 (A1-F18AC-742-200, WP012 00)  <div>4</div> F/A-18 AFTER F/A-18 AFC 292, do table 1 (A1-F18AH-742-200, WP012 00).
au. On test set, press and release RUN key.	On test set, STEP display indicates 900 and VALUE display indicates 4. MNL ACTN and RUN key lights come on.	Repair or replace test set.
av. On right throttle grip assembly, move TDC switch full aft and hold.	On HUD, maverick line of sight symbol moves up.	Do Throttle Designator Control Functional test:  <div>3</div> F/A-18A BEFORE F/A-18 AFC 292 and F/A-18B, do table 1 (A1-F18AC-742-200, WP012 00)  <div>4</div> F/A-18 AFTER F/A-18 AFC 292, do table 1 (A1-F18AH-742-200, WP012 00).
aw. On test set, press and release RUN key.	On test set, STEP display indicates 900 and VALUE display indicates 5. MNL ACTN and RUN key lights come on.	Repair or replace test set.



Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
ax. On right throttle grip assembly, release TDC switch.		
ay. On test set, press and release RUN key.	On test set, STEP display indicates 900 and VALUE display indicates 0. STEP GO and RUN key lights come on.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 1 (WP025 02).
az. On test set, press and release RUN key.	On test set, STEP display indicates 1000 and VALUE display indicates 1. MNL ACTN and RUN key lights come on.	Repair or replace test set.
ba. On test set, press and release RUN key.	On test set, TIP key light comes on.	Repair or replace test set.
bb. On aircraft controller grip assembly, press and release A/G weapon release switch.	On test set, STEP display indicates 1000 and VALUE display indicates 0. STEP GO and RUN key lights come on.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 1 (WP025 02).
bc. On test set, press and release RUN key.	On test set, STEP display indicates 1100 and VALUE display indicates 0. STEP GO and RUN key lights come on.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 1 (WP025 02).
bd. On test set, press and release RUN key.	On test set, UUT GO key light comes on.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 1 (WP025 02).
be. On LDDI, press and release MAV pushbutton switch (MAV deselected).	1. On LDDI, box removed from MAV.  2. On RDDI MAV display replaced by MENU display.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).  Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
bf. On master arm control panel assembly, press and release A/G switch.	A/G indicator light goes off.	On F/A-18A, do table 1, (WP010 32). On F/A-18B, do table 2, (WP010 32).
bg. On master arm control panel assembly, set MASTER switch to SAFE.	1. SAFE displayed on LDDI.  2. ARMAMENT OVERRIDE switch disengages.	Do table 2 (WP010 17).  Do table 3 (WP010 17).
bh. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to NORM and GEAR UPLOCK switch to NORM.		

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>bi. On GND PWR control panel assembly, set 3 switch to AUTO.</p> <p>bj. On test set, set AC power switch to OFF.</p> <p>bk. Repeat steps 3a through 3e, 5b and 5c, 6g through 6m and 7a through 7bi for remaining stations or do SHUT-DOWN.</p> <p>8. SHUTDOWN.</p> <p>a. On HI, set OFF/NIGHT/ DAY switch to OFF.</p> <p>b. On HUD, set BRT control to OFF.</p> <p>c. On LDDI and RDDI, set power switch to OFF.</p> <p>d. On GND PWR control panel assembly, set 2 and 1 switches to AUTO.</p> <p>e. Disconnect ground intercommunications (A1-F18AC-LMM-000).</p> <p>f. Remove electrical power (A1-F18AC-LMM-000).</p> <p>g. Disconnect proximity switch control (A1-F18AC-LMM-000).</p> <p>h. Close door 14R (A1-F18AC-LMM-010).</p> <p>i. Disconnect W13 power adapter from UTILITY PWR RECP 1J-G089.</p> <p>j. Disconnect W4 maverick cable from Maverick Jumper Cable W56227.</p> <p>k. Disconnect W5 ground strap from aircraft.</p> <p>l. Disconnect W5 ground strap, W2 power cable, and W4 maverick test cable from test set.</p> <p>m. Disconnect W13 power adapter cable from W2 power cable.</p>		

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
n. Stow W13 power adapter, W2 power cable, W4 maverick test cable, W5 ground strap and W1 test cable in test set accessory container.		
<b>LEGEND</b>  1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.  2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.  3 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253.  4 On F/A-18A 162394 thru 163175 after F/A-18 AFC 292.		

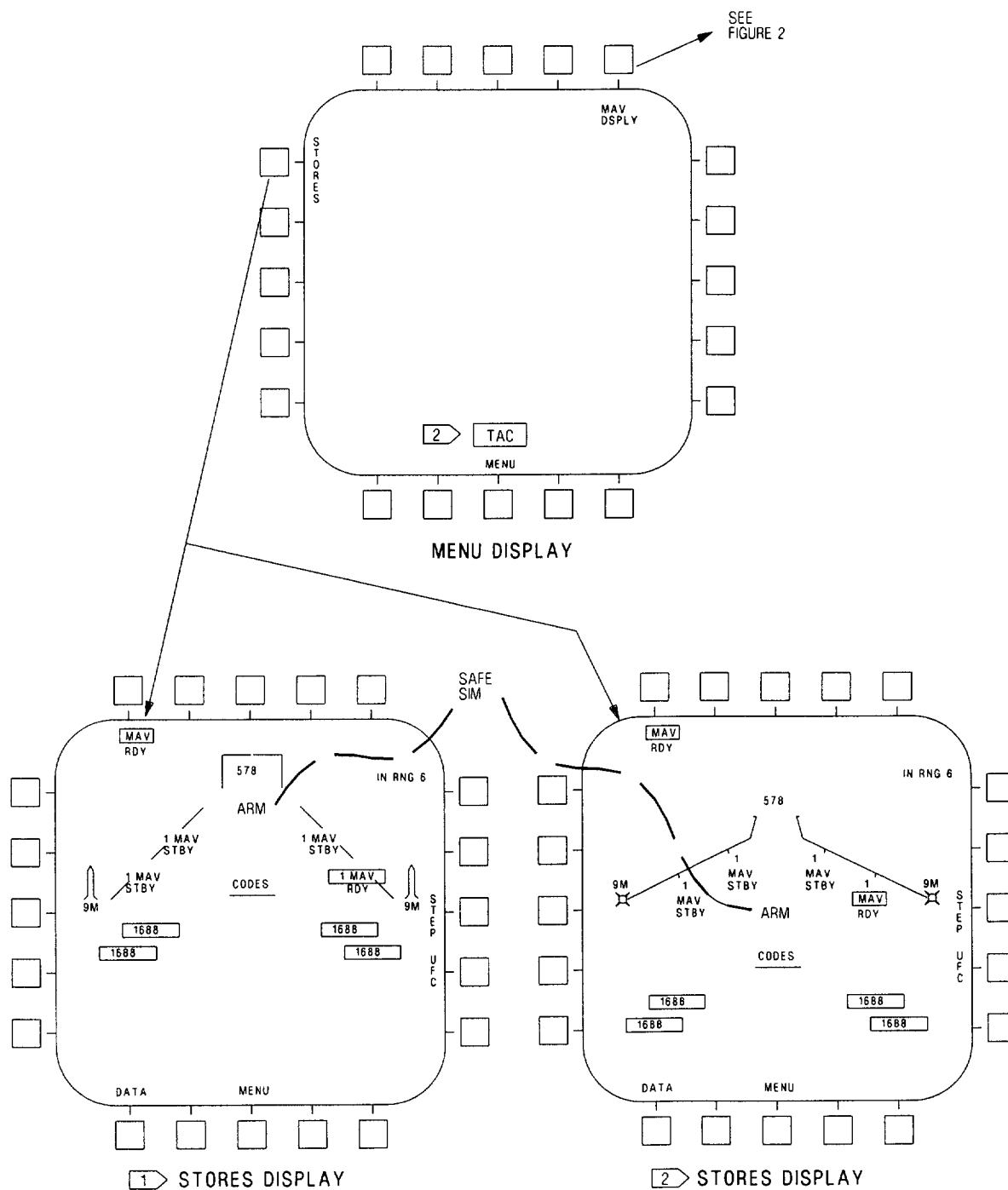
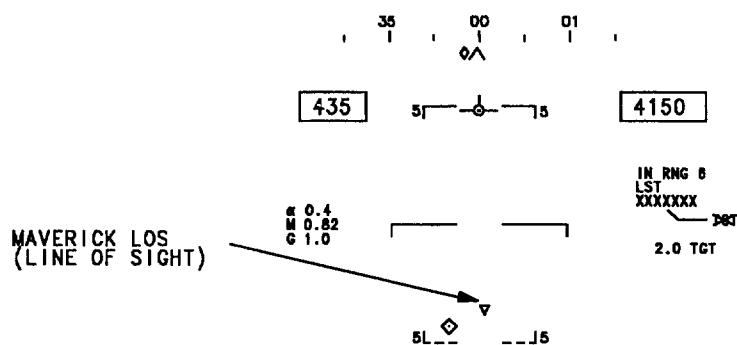
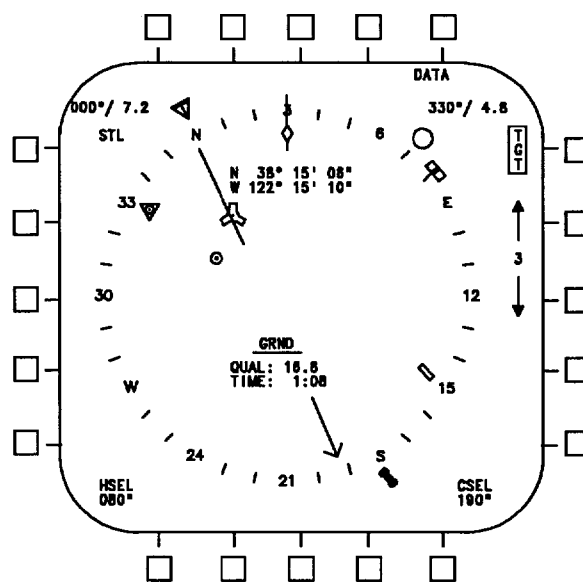


Figure 1. Test Displays (Sheet 1)



HUD DISPLAY MAVERICK MODE  
TARGET DESIGNATED

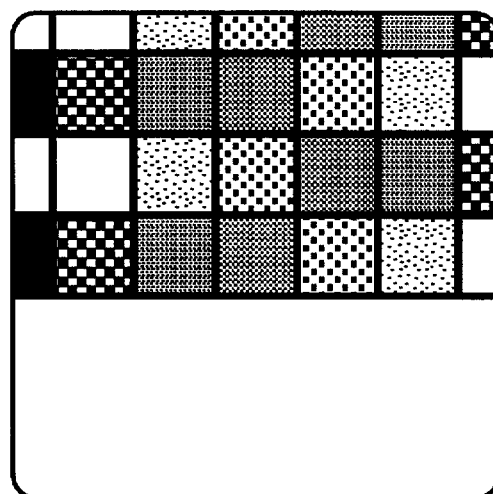
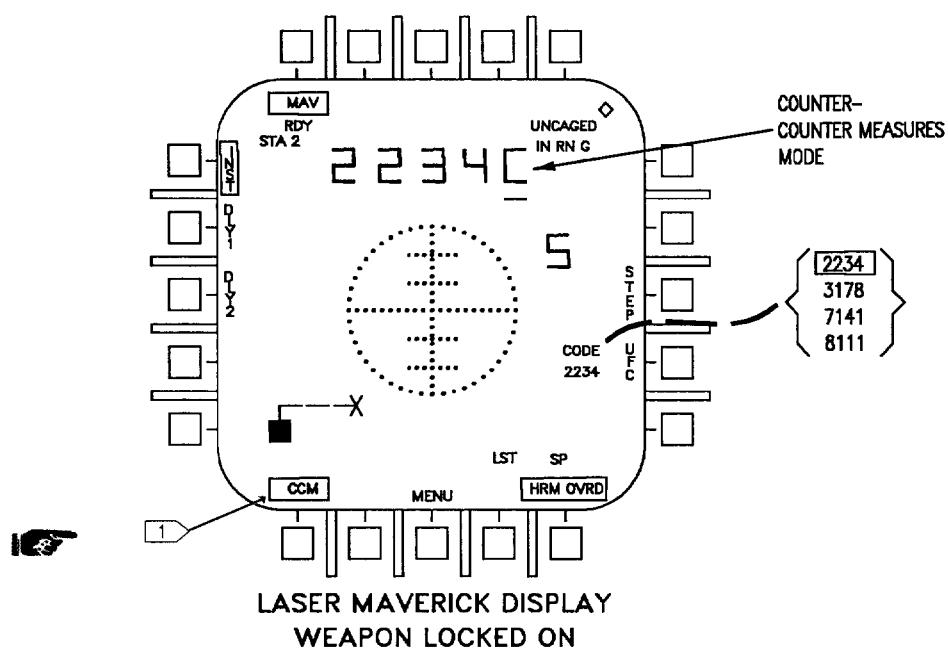


HSI DISPLAY

#### LEGEND

- 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.
- 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.

Figure 1. Test Displays (Sheet 2)



NORMAL VIDEO CROSSBAR DISPLAY  
(SEVEN SHADES OF GRAY)

#### LENGEND

- 1 F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.

Figure 2. Video Displays

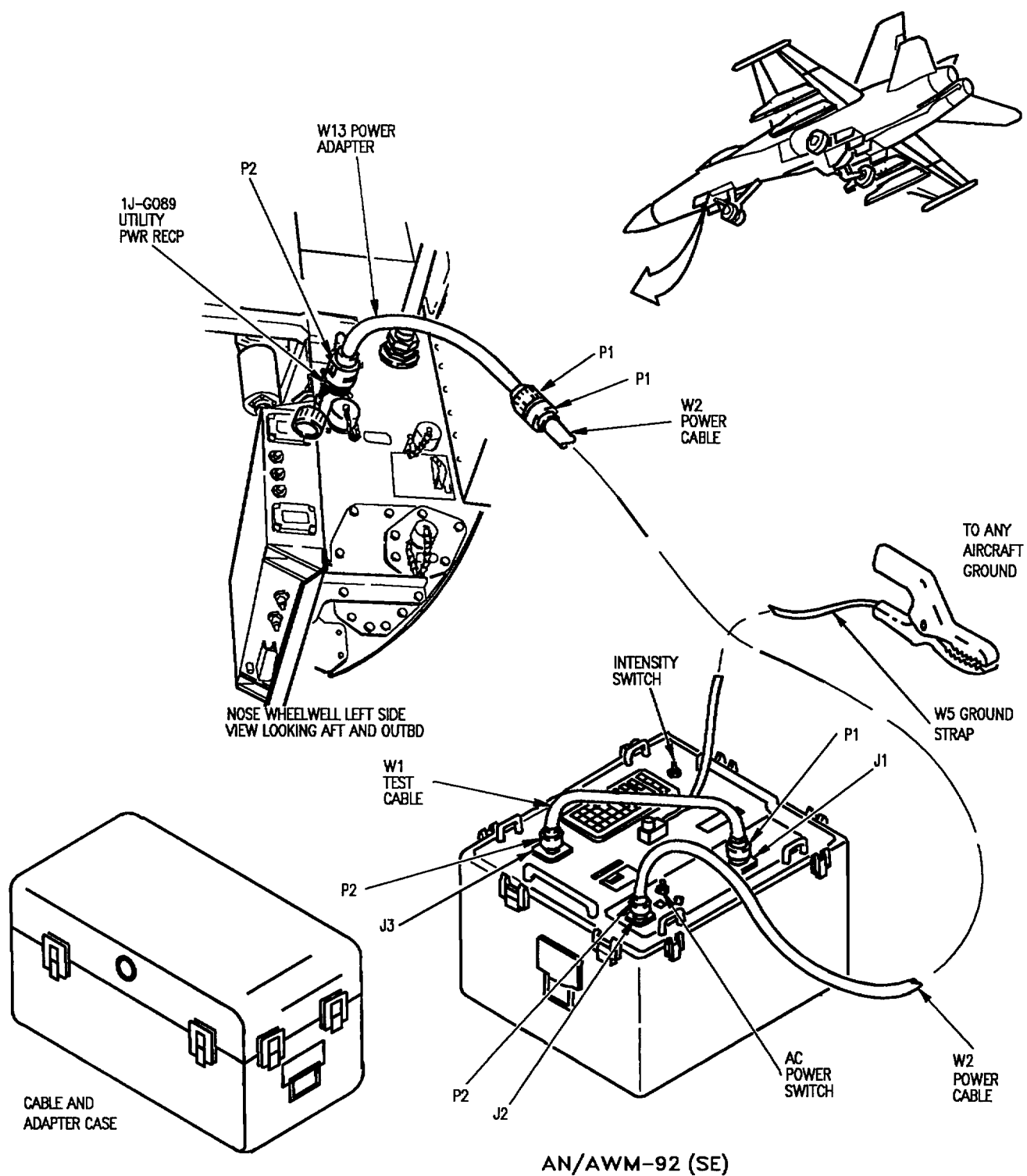


Figure 3. Test Equipment Hookup (Sheet 1)

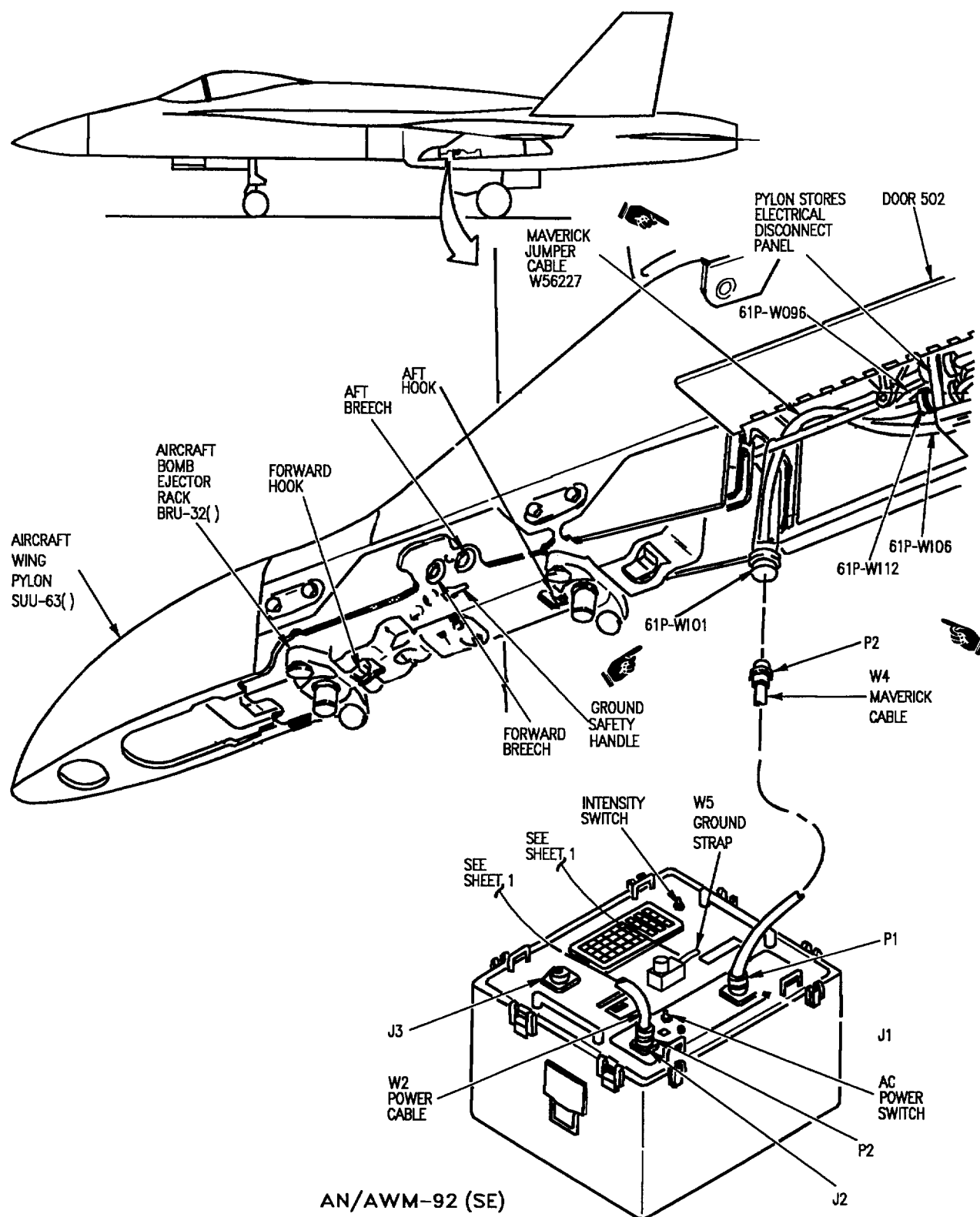


Figure 3. Test Equipment Hookup (Sheet 2)



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

TROUBLESHOOTING - AGM-65 MAVERICK WEAPON SYSTEM TEST USING  
AN/ AWM-92 TEST SET, PART 1

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

## 1. INTRODUCTION.

AGM-65 Maverick weapon system test failed on stations 2, 3, 7, or 8.

2. The AN/AWM-92 troubleshooting tables in this work package provide fault isolation when the

3. Tables 2, 3, 4, and 5 are the troubleshooting tables referred to in Table 1.

Table 1. Maintenance Action for AWM-92 Fail Codes

STEP Display	Test	Test Limits	Connector/Pin	Maintenance Action
<p align="center"><b>NOTE</b></p> <p>STEP display is the step number recorded using the RCL FAIL key.</p> <p>Test column is an explanation of test step number.</p> <p>Test limits lists the upper and lower pass limits for a test. With a fault code the VALUE display will be outside these limits.</p> <p>Connector/pin column lists the connector and pin used during that test step.</p> <p>Troubleshoot faults using the table/work package listed in Maintenance Action Column.</p>				
101	AGM-65 Ident exists.	-0.12vdc to 1.00vdc	61P-W099A pin a 61P-W099A pin H.	Station 2; do table 1, WP010 23.  Station 3; do table 1, WP010 25.  Station 7; do table 1, WP010 28.  Station 8; do table 1, WP010 29.
102 AND 103	Verify stray voltage detectors enabled.	-0.12vdc to 1.00vdc	-	Repair or replace Test Set.
104 THRU 106 AND 108 THRU 110	Verify 3 $\phi$ 115vac exists.	108.0vac to 121.0vac	61P-W099A pin v 61P-W099A pin x 61P-W099A pin y.	Station 2; do table <span style="border: 1px solid black; padding: 0 2px;">1</span> 1 or <span style="border: 1px solid black; padding: 0 2px;">2</span> 1A, WP025 03.  Station 3; do table <span style="border: 1px solid black; padding: 0 2px;">1</span> 2 or <span style="border: 1px solid black; padding: 0 2px;">2</span> 2A, WP025 03.  Station 7; do table 1, WP025 04.  Station 8; do table 2, WP025 04.
107	Verify 3 $\phi$ phase sequence.	Sequence is 1 = A, 2 = B, 3 = C.	61P-W099A pin v $\phi$ A. 61P-W099A pin x $\phi$ B. 61P-W099A pin y $\phi$ C	Repair or replace test set.

Table 1. Maintenance Action for AWM-92 Fail Codes (Continued)

STEP Display	Test	Test Limits	Connector/Pin	Maintenance Action
111 THRU 113	Verify 42 ohm load applied.	100.0vac to 121.0vac.	61P-W099A pin v 61P-W099A pin x 61P-W099A pin y.	Station 2; do table 1 1 or 2 1A, WP025 03.  Station 3; do table 1 2 or 2 2A, WP025 03.  Station 7; do table 1, WP025 04.  Station 8; do table 2, WP25 04.
114 THRU 116	Verify load removed.	0.0vac to 2.0vac.	61P-W099A pin v 61P-W099A pin x 61P-W099A pin y.	Station 2; do table 1, WP025 03.  Station 3; do table 2, WP025 03.  Station 7; do table 1, WP025 04.  Station 8; do table 2, WP025 04.
201	AGM-65 select (with 288 ohm load).	22.00vdc to 30.00vdc.	61P-W099A pin c.	Do table 2, this WP.
202	AGM-65 select (makes sure load is applied).	5.00vdc to 7.45vdc.	61P-W099A pin c.	Repair or replace test set.
203	AGM-65 select (with load removed).	21.81vdc to 28.78vdc.	61P-W099A pin c.	Do table 2, this WP.
204	Station select.	22.00vdc to 30.00vdc.	61P-W099A pin G.	Do table 3, this WP.
205	Missile ready.	-0.12vdc to 1.00vdc.	61P-W099A pin h.	Repair or replace test set.
206	Uncage/Cage (voltage level).	22.00vdc to 30.00vdc	61P-W099A pin u.	Do table 4, this WP.
207	Uncage/Cage (pulse width).	30 milliseconds to 140 milliseconds.	61P-W099A pin u	Replace Armament Computer CP-1342/AYQ-9(V).

Table 1. Maintenance Action for AWM-92 Fail Codes (Continued)

STEP Display	Test	Test Limits	Connector/Pin	Maintenance Action
208	Uncage/Cage (voltage level)	-1.00vdc to 1.00vdc.	61P-W099A pin u	Do table 4, this WP.
209 AND 210	28vdc power.	22.00vdc to 30.00vdc.	61P-W099A pin C.	Station 2; do table 1 1 or 2 1A, WP025 07.  Station 3; do table 1 2 or 2 2A, WP025 07.  Station 7; do table 3, WP025 07.  Station 8; do table 4, WP025 07.
211 AND 212	28vdc power (make sure load is first applied and then disconnected.)	varies	61P-W099A pin C.	Repair or replace test set.
213	Track command (slew enable does not exist).	-1.00vdc to 1.00vdc.	61P-W099A pin b.	Do table 1, WP025 05.
214	Slave command (slave enable does not exist).	12.80vdc to 18.71vdc.	61P-W099A pin J	Do table 2, WP025 05.
<b>NOTE</b>				
2 All 300 STEP Display codes apply only to AGM-65F missile tests.				
301 and 304	Uncage exists	22.00 vdc to 30.00 vdc	61P-W099A pin u	Do table 4, this WP
302 and 305	Pulse width	80 milliseconds to 300 milliseconds	61P-W099A pin u	Repair or replace test set
303 and 306	Uncage does not exist	-1.00 vdc to 1 vdc	61P-W099A pin u	Do table 4 this WP
<b>NOTE</b>				
2 STEP Display codes 400 through 407 listed below apply only to AGM-65F missile tests.				
401	Field of view.	22.00vdc to 30.00vdc.	61P-W099A pin V.	Do table 4, WP025 06.
402	Field of view.	-1.00 vdc to 1.00vdc.	61P-W099A pin V.	Do table 4, WP025 06.
403	Tracking Mode (Track White).	22.00 vdc to 30.00vdc.	61P-W099A pin Z.	Do table 5, WP025 06.

Table 1. Maintenance Action for AWM-92 Fail Codes (Continued)

STEP Display	Test	Test Limits	Connector/Pin	Maintenance Action
404	Tracking Mode (Track Black).	-0.12 vdc to 1.00vdc.	61P-W099A pin Z.	Do table 5, WP025 06.
405	Ship Track.	12.80 vdc to 18.71vdc.	61P-W099A pin s.	Do table 6, WP025 06.
406	Boresight (BST).	-1.00 vdc to 1.00vdc.	61P-W099A pin k.	Do table 7, WP025 06.
407	Ship track.	-0.12 vdc to 1.00vdc (ground).	61P-W099A pin s.	Do table 6, WP025 06.
<b>NOTE</b>				
STEP Display codes 400 through 412 listed below apply only to AGM-65E missile tests.				
401	Code insert.	12.80vdc to 18.71vdc.	61P-W099A pin Z.	Do table 3, WP025 06.
402	Code insert	-1.00vdc to 1.00vdc.	61P-W099A pin Z.	Do table 3, WP025 06.
403	Code insert	22.00vdc to 30.00vdc	61P-W099A pin Z.	Do table 3, WP025 06.
404	Code insert	390 milliseconds to 695 milliseconds.	61P-W099A pin Z.	Do table 3, WP025 06.
405	Code insert	410 milliseconds to 695 milliseconds	61P-W099A pin Z.	Do table 3, WP025 06.
406	Code insert	410 milliseconds to 695 milliseconds	61P-W099A pin Z.	Do table 3, WP025 06.
407	Code insert	12.80vdc to 18.71vdc	61P-W099A pin Z.	Do table 3, WP025 06.
408	Code insert	-1.00vdc to 1.00vdc.	61P-W099A pin Z.	Do table 3, WP025 06.
409	Code insert	22.00vdc to 30.00vdc.	61P-W099A pin Z.	Do table 3, WP025 06.
410	Code insert	390 milliseconds to 695 milliseconds	61P-W099A pin Z.	Do table 3, WP025 06.
411	Code insert	390 milliseconds to 695 milliseconds	61P-W099A pin Z.	Do table 3, WP025 06.
412	Code insert	390 milliseconds to 695 milliseconds	61P-W099A pin Z.	Do table 3, WP025 06.
801	Uncage/Cage.	-1.00vdc to 1.00vdc.	61P-W099A pin u.	Do table 4, this WP.
802	Slave command (verify ground).	-0.12vdc to 1.00vdc.	61P-W099A pin J.	Do table 2, WP25 05.

Table 1. Maintenance Action for AWM-92 Fail Codes (Continued)

STEP Display	Test	Test Limits	Connector/Pin	Maintenance Action
803	Horizontal slave command (target full left).	AGM-65E -4.00vdc to -2.00vdc. AGM-65F -10.00vdc to -2.00vdc.	61P-W099A pin f.	Do table 3, WP025 05.
804	Horizontal slave command (target full right).	AGM-65E 2.00vdc to 4.00vdc. AGM-65F 2.00vdc to 10.00vdc.	61P-W099A pin f.	Do table 3, WP025 05.
805	Vertical slave command (target full down).	AGM-65E -4.00vdc to -1.70vdc. AGM-65F -10.00vdc to -1.70vdc.	61P-W099A pin e.	Do table 3, WP025 05.
806	Vertical slave command (target full down).	AGM-65E 1.70vdc to 4.00vdc. AGM-65F 1.70vdc to 10.00vdc.	61P-W099A pin e.	Do table 3, WP025 05.
901	Track command.	22.00vdc to 30.00vdc.	61P-W099A pin b.	Do table 1, WP025 05.
902	Uncage/Cage.	-1.00vdc to 1.00vdc.	61P-W099A pin u.	Do table 4, this WP.
903	Azimuth slew command (target full left).	-16.20vdc to -1.70vdc.	61P-W099A pin K.	Do table 4, WP025 05.
904	Azimuth slew command (target full right).	1.70vdc to 16.20vdc.	61P-W099A pin K.	Do table 4, WP025 05.
905	Elevation slew command (target full bottom).	-16.20vdc to -1.70vdc.	61P-W099A pin L.	Do table 4, WP025 05.
906	Elevation slew command (target full top).	1.70vdc to 16.20vdc.	61P-W099A pin L.	Do table 4, WP025 05.
907	Track command (slew enable does not exist).	-1.00vdc to 1.00vdc.	61P-W099A pin b.	Do table 1, WP025 05.
908	Uncage/Cage.	-1.00vdc to 1.00vdc.	61P-W099A pin u.	Do table 4, this WP.
909 (AGM-65F)	Boresight.	22.00vdc to 30.00vdc.	61P-W099A pin k.	Do table 7, WP025 06.

Table 1. Maintenance Action for AWM-92 Fail Codes (Continued)

STEP Display	Test	Test Limits	Connector/Pin	Maintenance Action
1001	Relay coil (verify that load is removed)	20.00vdc to 34.10vdc.	-	Repair or replace test set.
1002	Launch command (does not exist).	-1.00vdc to 6.78vdc.	61P-W099A pin r.	Do table 2, WP025 06.
1003	Launch command (voltage)	18.00vdc to 30.00vdc.	61P-W099A pin r.	Do table 2, WP025 06.
1004	Fuzing voltage	-306vdc to -294vdc.	61P-W099A pin E.	Do table 5, this WP.
1005	Dome cover power.	18.00vdc to 30.00vdc.	61P-W099A pin P	Do table 1, WP025 06.
1006	Launch command (verify load)	14.47vdc to 30.00vdc.	61P-W099A pin r	Repair or replace test set.
1007	Dome cover power (verify load).	14.47vdc to 30.00vdc.	61P-W099A pin P	Repair or replace test set.
1008	Dome cover power (exists).	18.00vdc to 30.00vdc.	61P-W099A pin P.	Do table 1, WP025 06.
1009	Launch command exists.	18.00vdc to 30.00vdc.	61P-W099A pin r.	Do table 2, WP025 06.
1010	Fuzing voltage exists.	-306vdc to -294vdc.	61P-W099A pin E	Do table 5, this WP.
1101 AND 1102	Relay coil (verify that load applied).	-0.12vdc to 1.00vdc.	-	Repair or replace test set.
1103	Fuzing voltage does not exist.	-1.20vdc to 1.20vdc.	61P-W099A pin E.	Do table 5, this WP.
1104	Station select (does not exist).	-1.00vdc to 1.00vdc.	61P-W099A pin G.	Do table 3, this WP.
1105	AGM-65 select (does not exist).	-1.00vdc to 1.00vdc.	61P-W099A pin c.	Do table 2, this WP.
1106	Relay coil, 1A1K1 (verify that load applied).	-0.12vdc to 1.00vdc.	-	Repair or replace test set.

Table 1. Maintenance Action for AWM-92 Fail Codes (Continued)


STEP Display	Test	Test Limits	Connector/Pin	Maintenance Action
1107 THRU 1109	3 $\phi$ 115vac does not exist.	0.0vac to 5.0vac	61P-W099A pin v 61P-W099A pin x 61P-W099A pin y.	<p>Station 2; do table <input type="checkbox"/> 1 or <input type="checkbox"/> 2 1A, WP025 03.</p> <p>Station 3; do table <input type="checkbox"/> 2 or <input type="checkbox"/> 2A, WP025 03.</p> <p>Station 7; do table 1, WP025 04.</p> <p>Station 8; do table 2, WP025 04.</p>
<p style="text-align: center;"><b>LEGEND</b></p> <p><input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>				

Table 2. AGM-65 Select Failure

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP070 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( ) Armament Computer CP-1342/AYQ-9(V) LAU-117 Jumper Cable W56227 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	



Table 2. AGM-65 Select Failure (Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.		
(3) On pylon, open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012C from J3 of encoder-decoder.		
(5) Does continuity exist between 61P-W099A pin c and 61P-W012C pin y? .....	c	b
b. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
Do step f .....	-	-
c. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from 61J-W112.		
(3) Does continuity exist between 61P-W112 pin 6 and 61P-W099A pin c? .....	d	e

**Table 2. AGM-65 Select Failure (Continued)**

Procedure	No	Yes
d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step f . . . . .	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step f . . . . .	-	-
f. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W012C		
(2) 61P-W099A		
(3) 61P-W112		
(4) Doors 502, 504 . . . . .	-	-

**Table 3. AGM-65 Station Select Failure**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP070 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( )	
Armament Computer CP-1342/AYQ-9(V)	
LAU-117 Jumper Cable W56227	
Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

Table 3. AGM-65 Station Select Failure (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.		
(3) On pylon, open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012C from J3 of encoder-decoder.		
(5) Does continuity exist between 61P-W099A pin G and 61P-W012C pin K? .....	c	b
b. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18C-740-300, WP009 00).		
Do step f .....	-	-
c. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from 61J-W112.		
(3) Does continuity exist between 61P-W112 pin 7 and 61P-W099A pin G? .....	d	e


Table 3. AGM-65 Station Select Failure (Continued)

Procedure	No	Yes
d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step f . . . . .	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step f . . . . .	-	-
f. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W012C		
(2) 61P-W099A		
(3) 61P-W112		
(4) Doors 502, 504 . . . . .	-	-

Table 4. Uncage/Cage Failure

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP070 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( )	
Armament Computer CP-1342/AYQ-9(V)	
LAU-117 Jumper Cable W56227	
Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

Table 4. Uncage/Cage Failure (Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) Disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.		
(3) On pylon, open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012C from J3 of encoder-decoder.		
(5) Does continuity exist between 61P-W099A pin u and 61P-W012C pin v? .....	c	b
b. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18C-740-300, WP009 00).		
Do step f .....	-	-
c. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from 61J-W112.		
(3) Does continuity exist between 61P-W112 pin 57 and 61P-W099A pin u? .....	d	e
d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step f .....	-	-

**Table 4. Uncage/Cage Failure (Continued)**

Procedure	No	Yes
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step f . . . . .	-	-
f. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W012C		
(2) 61P-W099A		
(3) 61P-W112		
(4) Doors 502, 504 . . . . .	-	-

**Table 5. Electrical Fuzing Failure**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
74D20030-1001	Proximity Switch Control
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP070 00) and Electrical Fuzing Schematic (A1-F18AC-740-500, WP074 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Bomb Ejector Rack BRU-32( ) Aircraft Weapons Control Test Set AN/AWM-92 Aircraft Wiring Aircraft Wing Pylon SUU-63( ) Armament Computer CP-1342/AYQ-9(V) Electrical Fuzing Power Supply PP-6419/AWW-4(V) No. 2 Relay Panel Assembly No. 8 Circuit Breaker/Relay Panel Assembly LAU-117 Jumper Cable W56227	

Table 5. Electrical Fuzing Failure (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to multimeter during stray voltage testing, observe the list below:</p> <ol style="list-style-type: none"> <li>Start testing with multimeter on highest range scale.</li> <li>Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>Test for AC and DC voltages.</li> <li>Record any stray voltage readings as an aid when during further troubleshooting.</li> </ol> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>Pin to pin test per procedural step.</li> <li>Shorts to ground.</li> <li>Shorts between surrounding pins on connectors.</li> <li>Shorts between shield and conductors.</li> <li>Shield continuity.</li> </ol> <p>Bent/recessed pins in a connector are a common cause of stray voltage.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p> </div>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</li> <li>(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.</li> <li>(3) Connect jumper wire between 61P-W099A pin a (AGM-65 Ident) and aircraft ground.</li> <li>(4) Connect jumper, wire between 61P-W099A pin h (Selected Missile Ready) and aircraft ground.</li> <li>(5) Connect jumper wire between 61P-W099A pin H (LAU-117 Ident) and aircraft ground.</li> <li>(6) Open door 14R (A1-F18AC-LMM-010).</li> </ol>		

Table 5. Electrical Fuzing Failure (Continued)

Procedure	No	Yes
<p>(7) On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 65 for station under test.</p> <p>(8) On station under test, close hooks on BRU-32 and set ground safety handle to LOCKED.</p>		
<div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>(9) If not connected, connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(10) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(11) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(12) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.</p> <p>(13) On RDDI:</p> <p style="padding-left: 40px;">(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p style="padding-left: 40px;">(b) Press and release STORES pushbutton switch.</p> <p>(14) On proximity switch control, set MAN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(15) On master arm control panel assembly, press and release A/G switch.</p> <p>(16) On RDDI press and release MAV or MAVF pushbutton switch.</p> <p>(17) On aircraft controller grip assembly, push sensor control switch to the forward and release (TDC assigned to HUD).</p> <p>(18) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(19) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(20) On right throttle grip assembly, press and release TDC.</p> <p>(21) On aircraft controller grip assembly, press and hold A/G weapon release switch.</p> <p>(22) Does electrical fuzing voltage (-294vdc to -306vdc) exist between 61P-W099A pin E and aircraft ground? .....</p>	b	u



Table 5. Electrical Fuzing Failure (Continued)

Procedure	No	Yes
b. Memory inspect A/G weapon release discrete (CORESV+4/BIT 12) by doing substeps listed below:  (1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).  (2) On RDDI, is DATA readout XXXX(1, 3, 5, or 7)X? .....	c	d
c. Do substeps listed below:  (1) On aircraft controller grip assembly, release A/G weapon release switch.  (2) Do A/G Weapon Release Switch Fail (do applicable table 3 or 4, WP012 00) and do step bh .....	-	-
d. Memory inspect electrical fuzing power supply control discretes (CORESV+6/BITS 4, 7, 12, 15) by doing substeps below:  (1) Using unit address 06, memory inspect address for ref code CORESV+6 (table 2, WP010 19).  (2) On RDDI, does DATA readout display XX440 (1, 3, 5, or 7)? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step bh .....	-	-
f. Do substeps listed below:  (1) On aircraft controller grip assembly, release A/G weapon release switch.  (2) Open door 13L (A1-F18AC-LMM-010).  (3) Does 115vac exist at $\phi$ A, $\phi$ B, and $\phi$ C test points on front panel of Electrical Fuzing Power Supply PP-6419/AWW-4(V)? .....	g	l
g. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Disconnect 61P-E009A from 1J1 on electrical fuzing power supply.		

Table 5. Electrical Fuzing Failure (Continued)

Procedure	No	Yes
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Does 115vac exist between:		
61P-E009A pin m and aircraft ground		
61P-E009A pin f and aircraft ground		
61P-E009A pin g and aircraft ground? .....	i	h
h. Replace Electrical Fuzing Power Supply PP-6419/AWW-4(V) (A1-F18AC-740-300, WP012 00) and do step bh .....	-	-
i. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C159G from no. 8 circuit breaker/relay panel assembly.		
(4) Does continuity exist between:		
61P-E009A pin m and 52P-C159G pin 11		
61P-E009A pin f and 52P-C159G pin 12		
61P-E009A pin g and 52P-C159G pin 22? .....	j	k
j. Isolate defective aircraft wiring (A1-F18AC( )-WDM-000) and do step bh .....	-	-
k. Isolate malfunction between no. 8 circuit breaker/relay panel assembly wiring and 61CBC048, 61CBC049, or 61CBC050 (A1-F18AC-420-300, WP030 00) and do step bh .....	-	-
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from J2 on armament computer.		
(4) In door 13L, disconnect 61P-E009A from 1J1 on electrical fuzing power supply.		
(5) Does continuity exist between:		
61P-F001B pin 110 and 61P-E009A pin B		
61P-F001B pin 123 and 61P-E009A pin e		
61P-F001B pin 116 and 61P-E009A pin C		
61P-F001B pin 115 and 61P-E009A pin BB? .....	j	m
m. Do substeps listed below:		

Table 5. Electrical Fuzing Failure (Continued)

Procedure	No	Yes
(1) On proximity switch control, set MAIN GEAR and NOSE GEAR switches to NORM and GEAR UPLOCK switch to NORM.  (2) Turn on electrical power (A1-F18AC-LMM-000).  (3) On GND PWR control panel assembly, set and hold 1 and 2 switches to B ON for 3 seconds.  (4) On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.  (5) Does continuity exist between 61P-E009A pin GG and aircraft ground? .....	n	p
n. do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).  (2) In door 14R, disconnect 52P-F058C from 52J-F058C on no. 2 relay panel assembly.  (3) Does continuity exist between 61P-E009A pin GG and 52P-F058C pin 32? .....	i	o
o. Isolate malfunction between no. 2 relay panel assembly wiring and all gear up and locked relay 12K-F0024 (A1-F18AC-420-300, WP032 00) and do step bh .....	-	-
p. Do substeps listed below:		
(1) In door 13L, disconnect 61P-E009B from 1J2 on electrical fuzing power supply.  (2) Does continuity exist between 61P-E009B pin B and 61P-W099A pin E? .....	q	h
q. Do substeps listed below:		
(1) On pylon, disconnect 61P-W102 from 61J-W102.  (2) Does continuity exist between 61P-E009B pin B and 61J-W102 pin B? .....	s	r
r. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03) and do step bh .....	-	-
s. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (2) Does continuity exist between:  station 2: 52J-U062 pin 142 and 61P-E09B pin B station 3: 52J-U063 pin 142 and 61P-E09B pin B station 7: 52J-V067 pin 142 and 61P-E09B pin B station 8: 52J-V068 pin 142 and 61P-E09B pin B? .....	j	t
t. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step bh .....	-	-

Table 5. Electrical Fuzing Failure (Continued)

Procedure	No	Yes
u. Do substeps listed below: (1) On Aircraft controller grip assembly, release A/G weapon release switch. (2) Remove jumper wire from 61P-W099A pin a. (3) Remove jumper wire from 61P-W099A pin h. (4) Remove jumper wire from 61P-W099A pin H		
<b>NOTE</b> Bent/recessed pins, in a connector, are a common cause of stray voltage.		
(5) Does stray voltage exist between 61P-W099A pin E and aircraft ground? .....	v	w
v. Repair or replace Aircraft Weapon Control Test Set AN/AWM-92 and do step bh .....	-	-
w. Is the stray voltage approximately -300 vdc? .....	x	be
x. Do substeps listed below: (1) Turn off electrical power (A1-F18AC-LMM-000). (2) Open door 13L (A1-F18AC-LMM-010). (3) Disconnect 61P-E009B from 1J2 on electrical fuzing power supply. (4) Turn on electrical power (A1-F18AC-LMM-000). (5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
<b>NOTE</b> Bent/recessed pins, in a connector, are a common cause of stray voltage.		
(6) Does stray voltage exist between 61P-W099A pin E and aircraft ground? .....	h	y
<b>NOTE</b> Electrical fuzing stray voltage may be caused by a fault in any pylon station (including centerline) or by a failure in any BRU-32( ), BRU-33( ) aircraft bomb ejector rack or LAU-117 launcher installed on aircraft.		
y. Do substeps listed below: (1) Turn off electrical power (A1-F18AC-LMM-000).		

Table 5. Electrical Fuzing Failure (Continued)

Procedure	No	Yes
<p>(2) In door 13L, remove Electrical Fuzing Power Supply PP-6419/AWM-4(V) (A1-F18AC-740-300, WP012 00).</p> <p>(3) Disconnect 61P-E047C from Electrical Fuzing Adapter 61CPE047.</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) Does stray voltage exist between 61P-W099A pin E and aircraft ground? . . . . .</p>	az	z
<p>z. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 43 (A1-F18AC-LMM-010).</p> <p>(3) In door 43, disconnect:</p> <p style="padding-left: 40px;">station 2 or 3 failure; 61P-P028B from Electrical Fuzing Adapter 61CPP028</p> <p style="padding-left: 40px;">station 7 or 8 failure; 61P-P028C from Electrical Fuzing Adapter 61CPP028.</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) Does stray voltage exist between 61P-W099A pin E and aircraft ground? . . . . .</p>	an	aa
<p>aa. Is troubleshooting being done for a station 2 or 3 failure? . . . . .</p>	ao	ab
<p>ab. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 79L (A1-F18AC-LMM-010).</p> <p>(3) In door 79L, disconnect:</p> <p style="padding-left: 40px;">station 2 failure; 61P-U030C from Electrical Fuzing Adapter 61CPU030</p> <p style="padding-left: 40px;">station 3 failure; 61P-U030B from Electrical Fuzing Adapter 61CPU030.</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) Does stray voltage exist between 61P-W099A pin E and aircraft ground? . . . . .</p>	am	ac

Table 5. Electrical Fuzing Failure (Continued)

Procedure	No	Yes
ac. Is troubleshooting being done for a station 2 failure? . . . . .	ai	ad
ad. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W102 from 61J-W102 on pylon.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Does stray voltage exist between 61J-W102 center conductor and aircraft ground? . . . . .	r	ae
ae. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W097B from BRU-32 J2.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 61P-W097B pin B and aircraft ground? . . . . .	af	ah
af. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W097E from J5 on BRU-32.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 61P-W097E pin B and aircraft ground? . . . . .	ag	t
ag. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step bh . . . . .	-	-
ah. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		

Table 5. Electrical Fuzing Failure (Continued)

Procedure	No	Yes
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 52J-U062 (wing pylon disconnect) pin 142 and aircraft ground? .....	t	aj
ai. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W102 from 61J-W102 on pylon.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Does stray voltage exist between 61J-W102 center conductor and aircraft ground? .....	r	j
aj. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000)		
(2) Disconnect 61P-W097B from BRU-32 J2.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 61P-W097B pin B and aircraft ground? .....	ak	al
ak. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W097E from J5 on BRU-32.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 61P-W097E pin B and aircraft ground? .....	ag	t
al. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		

Table 5. Electrical Fuzing Failure (Continued)

Procedure	No	Yes
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 52J-U063 (wing pylon disconnect) pin 142 and aircraft ground? .....	t	j
am. Is troubleshooting being done for a station 3 failure? .....	ad	ai
an. Is troubleshooting being done on a station 7 or 8 failure? .....	ab	ao
ao. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 79R (A1-F18AC-LMM-010).		
(3) In door 79R, disconnect:		
station 7 failure; 61P-V031B from Electrical Fuzing Adapter 61CPU030		
station 8 failure; 61P-V031C from Electrical Fuzing Adapter 61CPU030.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 61P-W099A pin E and aircraft ground? .....	au	ap
ap. Is troubleshooting being done for a station 7 failure? .....	av	aq
aq. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W102 from 6LJ-W102 on pylon.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Does stray voltage exist between 61J-W102 center conductor and aircraft ground? .....	r	ar
ar. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W097B from BRU-32 J2.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		



Table 5. Electrical Fuzing Failure (Continued)

Procedure	No	Yes
(5) Does stray voltage exist between 61P-W097B pin B and aircraft ground? . . . . .	as	at
as. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W097E from J5 on BRU-32.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 61P-W097E pin B and aircraft ground? . . . . .	ag	t
at. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 52J-V067 (wing pylon disconnect) pin 142 and aircraft ground? . . . . .	t	j
au. Is troubleshooting being done for a station 8 failure? . . . . .	aq	av
av. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W102 from 61J-W102 on pylon.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Does stray voltage exist between 61J-W102 center conductor and aircraft ground? . . . . .	r	aw
aw. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W097B from BRU-32 J2.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		

Table 5. Electrical Fuzing Failure (Continued)

Procedure	No	Yes
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 61P-W097B pin B and aircraft ground? . . . . .	ax	ay
ax. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W097E from J5 on BRU-32.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 61P-W097E pin B and aircraft ground? . . . . .	ag	t
ay. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 52J-V068 (wing pylon disconnect) pin 142 and aircraft ground? . . . . .	t	j
az. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On centerline pylon, open door 510 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-Z162 from 61J-Z162.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 61P-E047C center conductor and aircraft ground? . . . . .	bc	ba
ba. Do substeps listed below:		

Table 5. Electrical Fuzing Failure (Continued)

Procedure	No	Yes
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).		
(3) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(4) On connector plate assembly, does continuity exist between 61J-Z162 and 61P-Z162? . . . . .	bb	j
bb. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step bh . . . . .	-	-
bc. Do substeps listed below:		
(1) On centerline pylon, open door 509 (A1-F18AC-LMM-010).		
(2) In door 509, disconnect 61P-Z105B from J2 on BRU-32.		
(3) Does continuity exist between 61P-Z162 center conductor and 61P-Z105B center conductor? . . . . .	bd	ag
bd. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step bh . . . . .	-	-
be. Do substeps listed below:		
(1) On aircraft controller grip assembly, release A/G weapon release switch.		
(2) Using unit address 06, memory inspect address for ref code CORESV+6 (table 2, WP010 19).		
(3) Is DATA readout XXXX(1, 3, 5, or 7)X? . . . . .	bg	bf
bf. Do A/G Weapon Release Switch Fail (do applicable table 3 or 4, WP012 00) and do step bh . . . . .	-	-
bg. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from J2 on armament computer.		
(4) Open door 13L (A1-F18AC-LMM-010).		
(5) Disconnect 61P-E009A from 1J1 on electrical fuzing power supply.		
(6) Does continuity exist between:		
61P-F001B pin 110 and 61P-E009A pin B		
61P-F001B pin 123 and 61P-E009A pin e		
61P-F001B pin 116 and 61P-E009A pin C		
61P-F001B pin 115 and 61P-E009A pin BB? . . . . .	j	h
bh. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		

Table 5. Electrical Fuzing Failure (Continued)

Procedure	No	Yes
(1) Jumper wires 61P-W099A pins a, h, and H.		
(2) 52P-C159G		
(3) 52P-F058C		
(4) 61P-E009A		
(5) 61P-E009B		
(6) 61P-E047C		
(7) 61P-F001B		
(8) 61P-P028B		
(9) 61P-P028C		
(10) 61P-U030B		
(11) 61P-U030C		
(12) 61P-V031B		
(13) 61P-V031C		
(14) 61P-W097B		
(15) 61P-W097E		
(16) 61P-W102		
(17) 61P-Z105B		
(18) 61P-Z162		
(19) Aircraft Fuselage Centerline Pylon SUU-62( )		
(20) Aircraft Wing Pylon SUU-63( )		
(21) Connector plate assembly		
(22) Electrical Fuzing Power Supply PP-6419/AWW-4(V)		
(23) Disconnect proximity switch control		
(24) Doors 10L, 13L, 14R, 43, 79L, 79R, 509, 510 . . . . .	-	-

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-65 MAVERICK WEAPON STATION POWER CONTROL, PART 1

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control System .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19
Stores Management System Locator .....	WP007 00


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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA-F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**Table 1. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required					
Part Number or Type Designation	Nomenclature				
77/BN	Multimeter				
Materials Required					
None					
NOTE					
AGM-65 Maverick Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP052 00 and WP051 00) may be used as an aid when doing this procedure.					
For component location, refer to WP007 00.					
Memory inspect data used in this procedure is provided in WP010 19.					
Malfunction is caused by one of the items listed below:					
Aircraft Guided Missile Launcher LAU-117( ) Aircraft Wing Pylon SUU-63() Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Left Wing Outboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) Maverick Jumper Cable W56227 No. 7 Circuit Breaker/Relay Panel Assembly					
Procedure	No	Yes			
<div></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p>52P-C057E</p> <th>NOTE</th> <td colspan="2"></td>			NOTE		
The question used in logic tree “Does continuity exist” means to test for the items listed below:					
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.					

**Table 1. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	r
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W099A (Maverick jumper cable W56227) from AN/AWM-92 test set.		
(4) Connect jumper wire between 61P-W099A pin a (AGM-65 Ident) and aircraft ground.		
(5) Connect jumper wire between 61P-W099A pin H (LAU-117 Ident) and aircraft ground.		
(6) Close BRU-32 FWD and AFT hooks.		
(7) Turn electrical power on (A1-F18AC-LMM-000).		
(8) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(9) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(10) On RDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
(c) Is 1 MAV symbol on stores display for station 2? .....	c	d
c. Troubleshoot Station 2 Does Not Display 1 MAV On Stores Display (WP010 23, Table 1) .....	-	-
d. Do substeps below:		
(1) On RDDI, press MAV pushbutton switch.		
(2) Memory inspect station 2 (weapon) power control (CORESV+4/BIT 6) by doing substeps below:		
(a) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
(b) On RDDI, does DATA readout display XX3XXX? .....	e	f

**Table 1. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step aa . . . . .	-	-
f. Does 115vac exist between 61P-W099A pins v, x, y and 61P-W099A pin g (ground)? . . . . .	h	g
g. Replace left outboard Aircraft Guided Missile Launcher LAU-117( ) (A1-F18AC-740-300, WP037 03). Do step aa . . . . .	-	-
h. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) On pylon, open door 502 (A1-F18AC-LMM-010).  (3) Disconnect 61P-W112 from AIR-GND pylon disconnect.  (4) Does continuity exist between:  61P-W112 pin 39 and 61P-W099A pin v 61P-W112 pin 49 and 61P-W099A pin x 61P-W112 pin 60 and 61P-W099A pin y 61P-W112 pin 50 and 61P-W099A pin g? . . . . .	i	j
i. Replace Maverick jumper cable W56227 (A1-F18AC-740-300, WP037 03). Do step aa . . . . .	-	-
j. Do substeps below:  (1) Connect 61P-W112 to AIR-GND pylon disconnect.  (2) Open door 10L (A1-F18AC-LMM-010).  (3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.  (4) Does continuity exist between:  52P-C057C pin u and 61P-W099A pin v 52P-C057C pin t and 61P-W099A pin x 52P-C057C pin s and 61P-W099A pin y Aircraft ground and 61P-W099A pin g? . . . . .	k	n
k. Do substeps below:  (1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (2) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:  52J-U062 pin 95 and 52P-C057C pin u 52J-U062 pin 96 and 52P-C057C pin t 52J-U062 pin 97 and 52P-C057C pin s 52J-U062 pin 107 and aircraft ground? . . . . .	l	m



**Table 1. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
52J-U062 pin 73 and 52P-C057C pin u		
52J-U062 pin 74 and 52P-C057C pin t		
52J-U062 pin 86 and 52P-C057C pin s		
52J-U062 pin 69 and aircraft ground? . . . . .	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step aa . . . . .	-	-
m. Replace left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step aa . . . . .	-	-
n. Do substeps below:		
(1) Disconnect 52P-C057E from no. 7 circuit breaker/relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between 52P-C057E pin 71 and pin 86 (aircraft ground)? . . . . .	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 122 and 52P-C057E pin 71? . . . . .	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Disconnect 52P-C057F from no. 7 circuit breaker/relay panel assembly.		
(5) Does continuity exist between 61P-F001B pin 26 and 52P-C057F pin 14? . . . . .	l	q
q. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring, station 2 power control relay (61K-C122), and ARM STA 2 circuit breakers (61CBC056, 61CBC057, 61CBC058) (A1-F18AC-420-300, WP027 00). Do step aa . . . . .	-	-

**Table 1. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>r. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W099A (Maverick jumper cable W56227) from AN/AWM-92 test set.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press MENU pushbutton switch.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 MAV symbol on stores display for station 2? .....</p>	v	s
<p>s. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012C from encoder-decoder.</p> <p>(4) Does short exist between:</p> <p>61P-W012C pin u (LAU-117 Ident) and aircraft ground 61P-W012C pin HH (AGM-65 Ident) and aircraft ground? .....</p>	t	u
<p>t. Replace Left Wing Outboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step aa .....</p>	-	-
<p>u. Do substeps below:</p> <p>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W112 from AIR-GND pylon disconnect.</p> <p>(3) Does short exist between:</p> <p>61P-W012C pin u (LAU-117 Ident) and aircraft ground 61P-W012C pin HH (AGM-65 Ident) and aircraft ground? .....</p>	i	m

**Table 1. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>v. Memory inspect station 2 (weapon) power control (CORESV+4/BIT 6) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).</p> <p>(2) On RDDI, does DATA readout display XX3XXX? .....</p>	w	e
<p>w. Does 115vac exist between 61P-W099A pins v, x, y, and pin g (aircraft ground)? .....</p>	g	x
<p>x. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.</p> <p align="center"><b>NOTE</b></p> <p align="center">Bent/recessed pins on connectors are a common cause of stray voltage.</p> <p>(4) On Maverick jumper cable W56227, does continuity exist between:</p> <p>61P-W112 pin 39 and 61P-W099A pin v  61P-W112 pin 49 and 61P-W099A pin x  61P-W112 pin 60 and 61P-W099A pin y? .....</p>	i	y
<p>y. Do substeps below:</p> <p>(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does 115vac exist between 52J-U062 pins 95, 96, 97 and pin 107 (aircraft ground)? .....</p> <p>ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does 115vac exist between 52J-U062 pins 73, 74, 86 and pin 69 (aircraft ground)? .....</p>	m   m	z   z
<p>z. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 10L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.</p>		

**Table 1. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) On 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
52J-U062 pin 95 and 52P-C057C pin u		
52J-U062 pin 96 and 52P-C057C pin t		
52J-U062 pin 97 and 52P-C057C pin s		
52J-U062 pin 107 and aircraft ground? .....	l	q
On 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
52J-U062 pin 73 and 52P-C057C pin u		
52J-U062 pin 74 and 52P-C057C pin t		
52J-U062 pin 86 and 52P-C057C pin s		
52J-U062 pin 69 and aircraft ground? .....	l	q
aa. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		
(1) 52P-C057C		
(2) 52P-C057E		
(3) 52P-C057F		
(4) 61P-W112		
(5) 61P-W012C		
(6) 61P-W099A		
(7) 61P-F001		
(8) Doors 10L, 14R, 502, 504		
(9) Aircraft Wing Pylon SUU-63( )		
(10) Jumper wire (61P-W099A) .....	-	-

**Table 1A. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>  None		
<b>NOTE</b>  Weapon Station 2 Power Control Schematic, AGM-65 Maverick Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP027 03, WP052 02, and WP051 00) may be used as aids when doing this procedure.  For component location, refer to WP007 00.  Memory inspect data used in this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:  Aircraft Guided Missile Launcher LAU-117( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Left Wing Outboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) Maverick Jumper Cable W56227 No. 7 Circuit Breaker/Relay Panel Assembly		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<b>NOTE</b>  The question used in logic tree “Does continuity exist” means to test for the items listed below:  1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u

**Table 1A. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>b. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W099A (LAU-117 Jumper Cable W56227) from AN/AWM-92 test set.</p> <p>(4) Connect jumper wire between 61P-W099A pin a (AGM-65 Ident) and aircraft ground.</p> <p>(5) Connect jumper wire between 61P-W099A pin H (LAU-117 Ident) and aircraft ground.</p> <p>(6) Close BRU-32( ) FWD and AFT hooks.</p> <p>(7) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(8) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(9) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(10) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 MAV or 1 MAVF symbol on stores display for station 2? . . . . .</p>		
<p>c. Troubleshoot Station 2 Does Not Display 1 MAV or 1 MAVF On Stores Display (WP010 23, table 1) . . . . .</p>	-	-
<p>d. Do substeps below:</p> <p>(1) On RDDI, press MAV or MAVF pushbutton switch.</p> <p>(2) Memory inspect station 2 (weapon) power control (CORESV+4/BIT 6) by doing substeps below:</p> <p>(a) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).</p>		

**Table 1A. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(b) On RDDI, does DATA readout display XX3XXX? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist from 61P-W099A pins v, x, and y to g (aircraft ground)? .....	h	g
g. Replace AN/AWM-92 Test Set. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(4) Does continuity exist between:		
61P-W112 pin 39 and 61P-W099A pin v		
61P-W112 pin 49 and 61P-W099A pin x		
61P-W112 pin 60 and 61P-W099A pin y		
61P-W112 pin 50 and 61P-W099A pin g? .....	i	j
i. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open door 79L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-U045C from no. 11 relay panel assembly.		
(4) Does continuity exist between:		
52P-U045C pin e and 61P-W099A pin v		
52P-U045C pin d and 61P-W099A pin x		
52P-U045C pin c and 61P-W099A pin y		
Aircraft ground and 61P-W099A pin g? .....	k	n
k. Do substeps below:		

**Table 1A. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP054 00)		
(2) Does continuity exist between:		
52J-U062 pin 73 and 52P-U045C pin e		
52J-U062 pin 74 and 52P-U045C pin d		
52J-U062 pin 86 and 52P-U045C pin c		
52J-U062 pin 69 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
(1) In door 79L, disconnect 52P-U045B from no. 11 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between 52P-U045B pin s and aircraft ground? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 122 and 52P-U045B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F100B pin 26 and 52P-U045B pin e? .....	l	q



**Table 1A. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
q. Do substeps below:		
(1) In door 79L, disconnect 52P-U045A from no. 11 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist between 52P-U045A pins A, B, S, and aircraft ground? .....	r	t
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.		
(4) Does continuity exist between:		
52P-C057C pin u and 52P-U045A pin A		
52P-C057C pin t and 52P-U045A pin B		
52P-C057C pin s and 52P-U045A pin S? .....	l	s
s. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and ARM STA 2 circuit breakers 61CBC056, 61CBC057, and 61CBC058) (A1-F18AC-420-300, WP027 00). Do step ad .....	-	-
t. Isolate malfunction between no. 11 relay panel assembly wiring and station 2 power control relay (61K-U122) (A1-F18AC-420-300, WP043 00). Do step ad .....	-	-
u. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W099A (LAU-117 Jumper Cable W56227) from AN/AWM-92 test set.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		

**Table 1A. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 MAV or MAVF symbol on stores display for station 2? . . . . .</p>	y	v
<p>v. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012C from encoder-decoder.</p> <p>(4) Does short exist between:</p> <p>61P-W012C pin u (LAU-117 Ident) and aircraft ground 61P-W012C pin HH (AGM-65 Ident) and aircraft ground? . . . . .</p>	w	x
<p>w. Replace Left Wing Outboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad . . . . .</p>	-	-
<p>x. Do substeps below:</p> <p>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W112 from AIR-GND pylon disconnect.</p> <p>(3) Does short exist between:</p> <p>61P-W012C pin u (LAU-117 Ident) and aircraft ground 61P-W012C pin HH (AGM-65 Ident) and aircraft ground? . . . . .</p>	i	m
<p>y. Memory inspect station 2 (weapon) power control (CORESV+4/BIT 6) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).</p>		
<p><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
<p>(2) On RDDI, does DATA readout display XX3XXX? . . . . .</p>	z	e
<p>z. Does 115vac exist from 61P-W099A pins v, x, and y to g (aircraft ground)? . . . . .</p>	g	aa

**Table 1A. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
aa. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) On pylon, open door 502 (A1-F18AC-LMM-010).  (3) Disconnect 61P-W112 from AIR-GND pylon disconnect.  (4) On LAU-117 Jumper Cable W56227, does continuity exist between:  61P-W112 pin 39 and 61P-W099A pin v 61P-W112 pin 49 and 61P-W099A pin x 61P-W112 pin 60 and 61P-W099A pin y? .....	i	ab
ab. Do substeps below:  (1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (2) Turn electrical power on (A1-F18AC-LMM-000).  (3) Does 115vac exist from 52J-U062 pins 73, 74, 86 to 69 (aircraft ground)? .....	m	ac
ac. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Open door 79L (A1-F18AC-LMM-010).  (3) Disconnect 52P-U045C from no. 11 relay panel assembly.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) Does continuity exist between:  52J-U062 pin 73 and 52P-U045C pin e 52J-U062 pin 74 and 52P-U045C pin d 52J-U062 pin 86 and 52P-U045C pin c 52J-U062 pin 69 and aircraft ground? .....	l	t
ad. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		


**Table 1A. Maverick Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(1) 52P-C057C		
(2) 52P-U045A		
(3) 52P-U045B		
(4) 52P-U045C		
(5) 61P-W112		
(6) 61P-W012C		
(7) 61P-W099A		
(8) 61P-F001B		
(9) Doors 10L, 14R, 79L, 502, 504		
(10) Aircraft Wing Pylon SUU-63( )		
(11) Remove jumper wires (61P-W099A)	-	-

**Table 2. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
AGM-65 Maverick Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP052 00 and WP051 00) may be used as an aid when doing this procedure.	
For component locations, refer to WP007 00.	
Memory inspect data used in this procedure is provided in WP010 19.	

**Table 2. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

<p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Guided Missile Launcher LAU-117( )  Aircraft Wing Pylon SUU-63( )  Aircraft Wiring  Armament Computer CP-1342/AYQ-9(V)  Left Wing Inboard Command Signal Encoder-Decoder KY-853/AYQ-9(V)  Maverick Jumper Cable W56227  No. 7 Circuit Breaker/Relay Panel Assembly</p>					
<b>Procedure</b>	<b>No</b>	<b>Yes</b>			
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p style="text-align: center;">52P-C057E</p> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; vertical-align: top;"> <p>a. Is troubleshooting being done for 115vac existing when it should be off? .....</p> <p>b. Do substeps below:</p> <p style="margin-left: 40px;">(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p style="margin-left: 40px;">(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p style="margin-left: 40px;">(3) Disconnect 61P-W099A (Maverick jumper cable W56227) from AN/AWM-92 test set.</p> <p style="margin-left: 40px;">(4) Connect jumper wire between 61P-W099A pin a (AGM-65 Ident) and aircraft ground.</p> </td> <td style="width: 5%; vertical-align: top; text-align: center;">b</td> <td style="width: 25%; vertical-align: top; text-align: center;">r</td> </tr> </table>			<p>a. Is troubleshooting being done for 115vac existing when it should be off? .....</p> <p>b. Do substeps below:</p> <p style="margin-left: 40px;">(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p style="margin-left: 40px;">(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p style="margin-left: 40px;">(3) Disconnect 61P-W099A (Maverick jumper cable W56227) from AN/AWM-92 test set.</p> <p style="margin-left: 40px;">(4) Connect jumper wire between 61P-W099A pin a (AGM-65 Ident) and aircraft ground.</p>	b	r
<p>a. Is troubleshooting being done for 115vac existing when it should be off? .....</p> <p>b. Do substeps below:</p> <p style="margin-left: 40px;">(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p style="margin-left: 40px;">(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p style="margin-left: 40px;">(3) Disconnect 61P-W099A (Maverick jumper cable W56227) from AN/AWM-92 test set.</p> <p style="margin-left: 40px;">(4) Connect jumper wire between 61P-W099A pin a (AGM-65 Ident) and aircraft ground.</p>	b	r			

**Table 2. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(5) Connect jumper wire between 61P-W099A pin H (LAU-117 Ident) and aircraft ground?		
(6) Close BRU-32 FWD and AFT hooks.		
(7) Turn electrical power on (A1-F18AC-LMM-000).		
(8) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(9) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(10) On RDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
(c) Is 1 MAV symbol on stores display for station 3? .....	c	d
c. Troubleshoot Station 3 Does Not Display 1 MAV On Stores Display (WP010 25, Table 1) .....	-	-
d. Do substeps below:		
(1) On RDDI, press MAV pushbutton switch.		
(2) Memory inspect station 3 (weapon) power control (CORESV+4/BIT 13) by doing substeps below:		
(a) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
(b) On RDDI, does DATA readout display XXXXX6? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step aa .....	-	-
f. Does 115vac exist between 61P-W099A pins v, x, y and pin g (aircraft ground)? .....	h	g
g. Replace left inboard Aircraft Guided Missile Launcher LAU-117( ) (A1-F18AC-740-300, WP037 03). Do step aa .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		

**Table 2. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.</p> <p>(4) Does continuity exist between:</p> <p>61P-W112 pin 39 and 61P-W099A pin v  61P-W112 pin 49 and 61P-W099A pin x  61P-W112 pin 60 and 61P-W099A pin y  61P-W112 pin 50 and 61P-W099A pin g? . . . . .</p>	i	j
i. Replace Maverick jumper cable W56227 (A1-F18AC-740-300, WP037 03). Do step aa . . . . .	-	-
j. Do substeps below:		
<p>(1) Connect 61P-W112 to AIR-GND pylon disconnect.</p> <p>(2) Open door 10L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.</p> <p>(4) Does continuity exist between:</p> <p>52P-C057C pin p and 61P-W099A pin v  52P-C057C pin n and 61P-W099A pin x  52P-C057C pin m and 61P-W099A pin y  Aircraft ground and 61P-W099A pin g? . . . . .</p>	k	n
k. Do substeps below:		
<p>(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) On 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:</p> <p>52J-U063 pin 95 and 52P-C057C pin p  52J-U063 pin 96 and 52P-C057C pin n  52J-U063 pin 97 and 52P-C057C pin m  52J-U063 pin 107 and aircraft ground? . . . . .</p>	l	m
<p>On 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:</p> <p>52J-U063 pin 73 and 52P-F057C pin p  52J-U063 pin 74 and 52P-F057C pin n  52J-U063 pin 86 and 52P-F057C pin m  52J-U063 pin 69 and aircraft ground? . . . . .</p>	l	m

**Table 2. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step aa .....	-	-
m. Replace left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step aa .....	-	-
n. Do substeps below:		
(1) Disconnect 52P-C057E from no. 7 circuit breaker/relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between 52P-C057E pin 71 and pin 86 (aircraft ground)? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 122 and 52P-C057E pin 71? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Disconnect 52P-C057F from no. 7 circuit breaker/relay panel assembly.		
(5) Does continuity exist between 61P-F001B pin 23 and 52P-C057F pin 12? .....	l	q
q. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring, station 3 power control relay (61K-C123), and ARM STA 3 circuit breakers (61CBC060, 61CBC061, 61CBC062) (A1-F18AC-420-300, WP027 00). Do step aa .....	-	-
r. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		



**Table 2. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(3) Disconnect 61P-W099A (Maverick jumper cable W56227) from AN/AWM-92 test set.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press MENU pushbutton switch.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 MAV symbol on stores display for station 3? .....</p>	v	s
<p>s. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012C from encoder-decoder.</p> <p>(4) Does short exist between:</p> <p>61P-W012C pin u (LAU-117 Ident) and aircraft ground 61P-W012C pin HH (AGM-65 Ident) and aircraft ground? .....</p>	t	u
<p>t. Replace Left Wing Inboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step aa .....</p>	-	-
<p>u. Do substeps below:</p> <p>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W112 from AIR-GND pylon disconnect.</p> <p>(3) Does short exist between:</p> <p>61P-W012C pin u (LAU-117 Ident) and aircraft ground 61P-W012C pin HH (AGM-65 Ident) and aircraft ground? .....</p>	i	m

**Table 2. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
v. Memory inspect station 3 (weapon) power control (CORESV+4/BIT 13) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
(2) On RDDI, does DATA readout display XXXXX6? .....	w	e
w. Does 115vac exist between 61P-W099A pins v, x, y, and pin g (aircraft ground)? .....	g	x
x. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
<b>NOTE</b>		
Bent/recessed pins on connectors are a common cause of stray voltage.		
(4) On Maverick jumper cable W56227, does continuity exist between:		
61P-W112 pin 39 and 61P-W099A pin v		
61P-W112 pin 49 and 61P-W099A pin x		
61P-W112 pin 60 and 61P-W099A pin y? .....	i	y
y. Do substeps below:		
(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On 161353 THRU 161987 BEFORE F/A-18 AFC 74, does 115vac exist between 52J-U063 pins 95, 96, 97 and pin 107 (aircraft ground)? .....	m	z
On 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does 115vac exist between 52J-U063 pins 73, 74, 86 and pin 69 (aircraft ground)? .....	m	z
z. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.		

**Table 2. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) On 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
52P-C057C pin p and 52J-U063 pin 95		
52P-C057C pin n and 52J-U063 pin 96		
52P-C057C pin m and 52J-U063 pin 97? .....	l	q
On 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
52P-C057C pin p and 52J-U063 pin 73		
52P-C057C pin n and 52J-U063 pin 74		
52P-C057C pin m and 52J-U063 pin 86? .....	l	q
aa. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		
(1) 52P-C057C		
(2) 52P-C057E		
(3) 52P-C057F		
(4) 61P-W112		
(5) 61P-W012C		
(6) 61P-W099A		
(7) 61P-F001B		
(8) Doors 10L, 14R, 502, 504		
(9) Aircraft Wing Pylon SUU-63( )		
(10) Jumper wire (61P-W099A) .....	-	-

**Table 2A. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 3 Power Control Schematic, AGM-65 Maverick Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP028 03, WP052 02 and WP051 00) maybe used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Aircraft Weapons Control Test Set AN/AWM-92 Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Left Wing Inboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) LAU-117 Jumper Cable W56227 No. 7 Circuit Breaker/Relay Panel Assembly No. 11 Relay Panel Assembly</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<b>NOTE</b>		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u

**Table 2A. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>b. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W099A (LAU-117 Jumper Cable W56227) from AN/AWM-92 test set.</p> <p>(4) Connect jumper wire between 61P-W099A pin a (AGM-65 Ident) and aircraft ground.</p> <p>(5) Connect jumper wire between 61P-W099A pin H (LAU-117 Ident) and aircraft ground.</p> <p>(6) Close BRU-32( ) FWD and AFT hooks.</p> <p>(7) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(8) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(9) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(10) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 MAV or 1 MAVF symbol on stores display for station 3? .....</p>		
<p>c. Troubleshoot Station 3 Does Not Display 1 MAV or 1 MAVF On Stores Display (WP010 25, table 1) .....</p>	-	-
<p>d. Do substeps below:</p> <p>(1) On RDDI, press MAV or MAVF pushbutton switch.</p> <p>(2) Memory inspect station 3 (weapon) power control (CORESV+4/BIT 13) by doing substeps below:</p> <p>(a) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).</p>		

**Table 2A. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
<p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(b) On RDDI, does DATA readout display XXXXX6? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist from 61P-W099A pins v, x, and y to g (aircraft ground)? .....	h	g
g. Replace Aircraft Weapons Control Test Set AN/AWM-92. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(4) Does continuity exist between:		
61P-W112 pin 39 and 61P-W099A pin v 61P-W112 pin 49 and 61P-W099A pin x 61P-W112 pin 60 and 61P-W099A pin y 61P-W112 pin 50 and 61P-W099A pin g? .....	i	j
i. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open door 79L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-U045C from no. 11 relay panel assembly.		
(4) Does continuity exist between:		
52P-U045U pin f and 61P-W099A pin v 52P-U045C pin T and 61P-W099A pin x 52P-U045C pin U and 61P-W099A pin y Aircraft ground and 61P-W099A pin g? .....	k	n

**Table 2A. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
k. Do substeps below:		
(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-U063 pin 73 and 52P-V045C pin f		
52J-U063 pin 74 and 52P-V045C pin T		
52J-U063 pin 86 and 52P-V045C pin U		
52J-U063 pin 69 and aircraft ground ? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
(1) In door 79L, disconnect 52P-U045B from no. 11 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between 52P-U045B pin s and aircraft ground? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 122 and 52P-U045B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 23 and 52P-U045B pin d? .....	l	q

**Table 2A. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
q. Do substeps below:		
(1) In door 79L, disconnect 52P-U045A from no. 11 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist between 52P-U045A pins d, c, f, and aircraft ground . . . . .	r	t
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.		
(4) Does continuity exist between:		
52P-C057C pin p and 52P-U045A pin d		
52P-C057C pin n and 52P-U045A pin c		
52P-C057C pin m and 52P-U045A pin f? . . . . .	l	s
s. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and ARM STA 3 circuit breakers (61CBC060, 61CBC061, and 61CBC062) (A1-F18AC-420-300, WP027 00). Do step ad . . . . .	-	-
t. Isolate malfunction between no. 11 relay panel assembly wiring and station 3 power control relay (61K-U123) (A1-F18AC-420-300, WP043 00). Do step ad . . . . .	-	-
u. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W099A (LAU-117 Jumper Cable W56227) from AN/AWM-92 test set.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		



**Table 2A. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(7) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 1 MAV or 1 MAVF symbol on stores display for station 3? .....	y	v
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from encoder-decoder.		
(4) Does short exist between:		
61P-W012C pin u (LAU-117 Ident) and aircraft ground		
61P-W012C pin HH (AGM-65 Ident) and aircraft ground? .....	w	x
w. Replace Left Wing Inboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....	-	-
x. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(3) Does short exist between:		
61P-W012C pin u (LAU-117 Ident) and aircraft ground		
61P-W012C pin HH (AGM-65 Ident) and aircraft ground? .....	i	m
y. Memory inspect station 3 (weapon) power control (CORESV+4/BIT 13) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		

**Table 2A. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXXX6? .....	z	e
z. Does 115vac exist from 61P-W099A pins v, x, and y to g (aircraft ground)? .....	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(4) On Maverick jumper cable W56227, does continuity exist between:		
61P-W112 pin 39 and 61P-W099A pin v		
61P-W112 pin 49 and 61P-W099A pin x		
61P-W112 pin 60 and 61P-W099A pin y? .....	i	ab
ab. Do substeps below:		
(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist from 52J-U063 pins 73, 74, and 86 to 69 (aircraft ground)? .....	m	ac
ac. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 79L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-U045C from no. 11 relay panel assembly.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(4) Does continuity exist between:		
52P-U045C pin f and 52J-U063 pin 73		
52P-U045C pin T and 52J-U063 pin 74		
52P-U045C pin U and 52J-U063 pin 86? .....	l	t

**Table 2A. Maverick Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
ad. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		
(1) 52P-C057C		
(2) 52P-U045A		
(3) 52P-U045B		
(4) 52P-U045C		
(5) 61P-W112		
(6) 61P-W012C		
(7) 61P-W099A		
(8) 61P-F001B		
(9) Doors 10L, 14R, 79L, 502, 504		
(10) Aircraft Wing Pylon SUU-63( )		
(11) Jumper wire (61P-W099A) .....	-	-



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-65 MAVERICK WEAPON STATION POWER CONTROL, PART 2

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control System .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00


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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorpo- ration of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**Table 1. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>AGM-65 Maverick Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP052 00 and WP051 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p>		
<p>Malfunction is caused by one of the items listed below:</p> <ul style="list-style-type: none"> <li>Aircraft Guided Missile Launcher LAU-117( )</li> <li>Aircraft Wing Pylon SUU-63( )</li> <li>Aircraft Wiring</li> <li>Armament Computer CP-1342/AYQ-9(V)</li> <li>Maverick Jumper Cable W56227</li> <li>No. 2 Circuit Breaker Panel Assembly</li> <li>No. 2 Relay Panel Assembly</li> <li>No. 4 Circuit Breaker Panel Assembly</li> <li>Right Wing Inboard Command Signal Encoder-Decoder KY-853/AYQ-9(V)</li> </ul>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
 <p style="margin-top: 20px;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center; margin-top: 10px;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	v

**Table 1. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>b. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W099A (Maverick jumper cable W56227) from AN/AWM-92 test set.</p> <p>(4) Connect jumper wire between 61P-W099A pin a (AGM-65 Ident) and aircraft ground.</p> <p>(5) Connect jumper wire between 61P-W099A pin H (LAU-117 Ident) and aircraft ground.</p> <p>(6) Close BRU-32 FWD and AFT hooks.</p> <p>(7) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(8) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for three seconds.</p> <p>(9) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(10) On RDDI:</p> <p>(a) Press MENU pushbutton switch.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 MAV symbol on stores display for station 7? . . . . .</p>		
c. Troubleshoot Station 7 Does Not Display 1 MAV On Stores Display (WP010 28, Table 1) . . . . .	-	-
<p>d. Memory inspect station 7 (weapon) power control (CORESV+2/BIT 13) by doing substeps below.</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).</p> <p>(2) On RDDI, does DATA readout display XXXXX5? . . . . .</p>	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ae. . . . .	-	-
f. Does 115vac exist between 61P-W099A pins v, x, y and pin g (aircraft ground)? . . . . .	h	g

**Table 1. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
g. Replace right inboard Aircraft Guided Missile Launcher LAU-117( ) (A1-F18AC-740-300, WP037 03). Do step ae. ....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(4) Does continuity exist between:		
61P-W112 pin 39 and 61P-W099A pin v		
61P-W112 pin 49 and 61P-W099A pin x		
61P-W112 pin 60 and 61P-W099A pin y		
61P-W112 pin 50 and 61P-W099A pin g? .....	i	j
i. Replace Maverick jumper cable W56227 (A1-F18AC-740-300, WP037 03). Do step ae .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-F058D from no. 2 relay panel assembly.		
(4) Does continuity exist between:		
52P-F058D pin J and 61P-W099A pin v		
52P-F058D pin K and 61P-W099A pin x		
52P-F058D pin L and 61P-W099A pin y		
Aircraft ground and 61P-W099A pin g? .....	k	n
k. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
52J-V067 pin 95 and 52P-F058D pin J		
52J-V067 pin 96 and 52P-F058D pin K		
52J-V067 pin 97 and 52P-F058D pin L		
52J-V067 pin 107 and aircraft ground? .....	l	m



**Table 1. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:  52J-V067 pin 73 and 52P-F058D pin J 52J-V067 pin 74 and 52P-F058D pin K 52J-V067 pin 86 and 52P-F058D pin L 52J-V067 pin 69 and aircraft ground? . . . . .	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ae . . . . .	-	-
m. Replace right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ae. . . . .	-	-
n. Do substeps below:  (1) Disconnect 52P-F058C from no. 2 relay panel assembly.  (2) Turn electrical power on (A1-F18AC-LMM-000).  (3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.  (4) Does 28vdc exist between 52P-F058C pin 38 and pin 78 (ground)? . . . . .	o	p
o. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Disconnect 61P-F001B from armament computer.  (3) Does continuity exist between 61P-F001B pin 24 and 52P-F058C pin 38? . . . . .	l	e
p. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Disconnect 61P-F001B from armament computer.  (3) Does continuity exist between 61P-F001B pin 18 and 52P-F058C pin 49? . . . . .	l	q
q. Do substeps below:  (1) Turn electrical power on (A1-F18AC-LMM-000).  (2) Does 115vac exist between 52P-F058D pins F, G, H, and aircraft ground?. . . . .	r	u

**Table 1. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>r. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 10R (A1-F18AC-LMM-010).</p> <p>(3) On 161353 THRU 161359, disconnect 52P-D026C from no. 4 circuit breaker panel assembly.</p> <p>On 161360 AND UP, disconnect 52P-D024C from no. 2 circuit breaker panel assembly.</p> <p>(4) On 161353 THRU 161359, does continuity exist between:</p> <p>52P-D026C pin u and 52P-F058D pin F  52P-D026C pin v and 52P-F058D pin G  52P-D026C pin w and 52P-F068D pin H? . . . . .</p> <p>On 161360 AND UP, does continuity exist between:</p> <p>52P-D024C pin u and 52P-F058D pin F  52P-D024C pin g and 52P-F058D pin G  52P-D024C pin w and 52P-F058D pin H? . . . . .</p> <p>s. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and ARM STA 7 circuit breakers (61CBD076, 61CBD077, and 61CBD078) (A1-F18AC-420-300, WP025 00). Do step ae. . . . .</p> <p>t. Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 7 circuit breakers (61CBD076, 61CBD077, and 61CBD078) (A1-F18AC-420-300, WP024 00). Do step ae. . . . .</p> <p>u. Isolate malfunction between no. 2 relay panel assembly wiring and station 7 power control relay (61K-F127) (A1-F18AC-420-300, WP032 00). Do substep ae. . . . .</p> <p>v. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W099A (Maverick jumper cable W56227) from LAU-117 launcher.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p>	<p>l</p> <p>l</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p>	<p>s</p> <p>t</p> <p>-</p> <p>-</p> <p>-</p>

**Table 1. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press MENU pushbutton switch.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 MAV symbol on stores display for station 7? . . . . .</p>	z	w
<p>w. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012C from encoder-decoder.</p> <p>(4) Does short exist between:</p> <p>61P-W012C pin HH (AGM-65 Ident) and aircraft ground 61P-W012C pin u (LAU-117 Ident) and aircraft ground? . . . . .</p>	x	y
<p>x. Replace Right Wing Inboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP007 00). Do step ae . . . . .</p>	-	-
<p>y. Do substeps below:</p> <p>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W112 from AIR-GND pylon disconnect.</p> <p>(3) Does short exist between:</p> <p>61P-W012C pin HH (AGM-65 Ident) and aircraft ground 61P-W012C pin u (LAU-117 Ident) and aircraft ground? . . . . .</p>	i	m
<p>z. Memory inspect station 7 (weapon) power control (CORESV+2/BIT 13) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).</p> <p>(2) On RDDI, does DATA readout display XXXXX5? . . . . .</p>	aa	e
<p>aa. Does 115vac exist between 61P-W099A pins v, x, y, and pin g (aircraft ground)? . . . . .</p>	g	ab

**Table 1. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
ab. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) On pylon, open door 502 (A1-F18AC-LMM-010).  (3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) On Maverick jumper cable W56227, does continuity exist between:  61P-W112 pin 39 and 61P-W099A pin v 61P-W112 pin 49 and 61P-W099A pin x 61P-W112 pin 60 and 61P-W099A pin y? .....	i	ac
ac. Do substeps below:  (1) Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (2) Turn electrical power on (A1-F18AC-LMM-000).  (3) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does 115vac exist between 52J-V067 pins 95, 96, 97 and pin 107 (aircraft ground)? .....	m	ad
ON 162394 AND UP, ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does 115vac exist between 52J-V067 pins 73, 74, 86 and pin 69 (aircraft ground)? .....	m	ad
ad. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Open door 14R (A1-F18AC-LMM-010).  (3) Disconnect 52P-F058D from no. 2 relay panel assembly.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:  52P-F058D pin J and 52J-V067 pin 95 52P-F058D pin K and 52J-V067 pin 96 52P-F058D pin L and 52J-V067 pin 97? .....	l	u

**Table 1. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:</p> <p>52P-F058D pin J and 52J-V067 pin 73  52P-F058D pin K and 52J-V067 pin 74  52P-F058D pin L and 52J-V067 pin 86? .....</p> <p>ae. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.</p> <p>(1) 52P-D026C</p> <p>(2) 52P-D024C</p> <p>(3) 52P-F058C</p> <p>(4) 52P-F058D</p> <p>(5) 61P-W112</p> <p>(6) 61P-W012C</p> <p>(7) 61P-W099A</p> <p>(8) 61P-F001B</p> <p>(9) Doors 10R, 14R, 502, 504</p> <p>(10) Aircraft Wing Pylon SUU-63( )</p> <p>(11) Jumper wire (61P-W099A) .....</p>	l	u
	-	-

**Table 1A. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
<p>Weapon Station 7 Power Control Schematic, AGM-65 Maverick Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP032 03, WP052 02 and WP051 00) may be used as aids when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Weapons Control Test Set AN/AWM-92 Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) LAU-117 Jumper Cable W56227 No. 2 Circuit Breaker Panel Assembly No. 10 Relay Panel Assembly Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
NOTE		
<p>The question used in logic tree "Does continuity exist" means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u
b. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W099A from Aircraft Weapons Control Test Set AN/AWM-92.		

**Table 1A. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(4) Connect jumper wire between aircraft ground and 61P-W099A pins a and H.</p> <p>(5) Close BRU-32( ) FWD and AFT hooks.</p> <p>(6) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(8) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(9) On RDDI:</p> <p style="padding-left: 40px;">(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p style="padding-left: 40px;">(b) Press STORES pushbutton switch.</p> <p style="padding-left: 40px;">(c) Is 1 MAV or 1 MAVF symbol on stores display for station 7? .....</p> <p>c. Troubleshoot Station 7 Does Not Display 1 MAV or 1 MAVF On Stores Display (WP010 28, table 1) .....</p> <p>d. Memory inspect station 7 (weapon) power control (CORESV+2/BIT 13) by doing substeps below:</p> <p style="padding-left: 40px;">(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).</p>	<p>c</p> <p>-</p>	<p>d</p> <p>-</p>
<b>NOTE</b>		
<p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
<p>(2) On RDDI, does DATA readout display XXXXX5? .....</p> <p>e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad. ....</p> <p>f. Does 115vac exist from 61P-W099A pins v, x, and y to g (aircraft ground)? .....</p> <p>g. Replace Aircraft Weapons Control Test Set AN/AWM-92. Do step ad .....</p> <p>h. Do substeps below:</p> <p style="padding-left: 40px;">(1) Turn electrical power off (A1-F18AC-LMM-000).</p>	<p>e</p> <p>-</p> <p>h</p> <p>-</p>	<p>f</p> <p>-</p> <p>g</p> <p>-</p>

**Table 1A. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(4) Does continuity exist between:		
61P-W112 pin 39 and 61P-W099A pin v		
61P-W112 pin 49 and 61P-W099A pin x		
61P-W112 pin 60 and 61P-W099A pin y		
61P-W112 pin 50 and 61P-W099A pin g? .....	i	j
i. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open door 79R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-V044C from no. 10 relay panel assembly.		
(4) Does continuity exist between:		
52P-V044C pin f and 61P-W099A pin v		
52P-V044C pin T and 61P-W099A pin x		
52P-V044C pin U and 61P-W099A pin y		
Aircraft ground and 61P-W099A pin g? .....	k	n
k. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-V067 pin 73 and 52P-V044C pin f		
52J-V067 pin 74 and 52P-V044C pin T		
52J-V067 pin 86 and 52P-V044C pin U		
52J-V067 pin 69 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
(1) Disconnect 52P-V044B from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist from 52P-V044B pin s to aircraft ground? .....	o	p



**Table 1A. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-000).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 24 and 52P-V044B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 18 and 52P-V044B pin d? .....	l	q
q. Do substeps below:		
(1) In door 143R, disconnect 52P-V044A from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist from 52P-V044A pins d, c, and f to aircraft ground? .....	r	t
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D024C from no. 2 circuit breaker panel assembly.		
(4) Does continuity exist between:		
52P-D024C pin u and 52P-V044A pin d		
52P-D024C pin g and 52P-V044A pin c		
52P-D024C pin w and 52P-V044A pin f? .....	l	s
s. Isolate malfunction between No. 2 Circuit Breaker Panel Assembly wiring and ARM STA 7 circuit breakers (61CBD076, 61CBD077, and 61CBD078) (A1-F18AC-420-300, WP024 00). Do step ad. ....	-	-
t. Isolate malfunction between No. 10 Relay Panel Assembly wiring and station 7 power control relay (61K-V127) (A1-F18AC-420-300, WP042 00). Do substep ad. ....	-	-
u. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W099A from Aircraft Weapons Control Test Set AN/AWM-92.		

**Table 1A. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 MAV or 1 MAVF symbol on stores display for station 7? .....</p>	y	v
<p>v. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012C from encoder-decoder.</p> <p>(4) Does short exist between:</p> <p>61P-W012C pin u and aircraft ground 61P-W012C pin HH and aircraft ground? .....</p>	w	x
<p>w. Replace Right Wing Inboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad. ....</p>	-	-
<p>x. Do substeps below:</p> <p>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W112 from AIR-GND pylon disconnect.</p> <p>(3) Does short exist between:</p> <p>61P-W012C pin u and aircraft ground 61P-W012C pin HH and aircraft ground? .....</p>	i	m
<p>y. Memory inspect station 7 (weapon) power control (CORESV+2/BIT 13) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).</p>		

**Table 1A. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
<p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXXX5? .....	z	e
z. Does 115vac exist from 61P-W099A pins v, x, and y to pin g (aircraft ground)? .....	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(4) On LAU-117 Jumper Cable W56227, does continuity exist between:		
61P-W112 pin 39 and 61P-W099A pin v		
61P-W112 pin 49 and 61P-W099A pin x		
61P-W112 pin 60 and 61P-W099A pin y? .....	i	ab
ab. Do substeps below:		
(1) Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist from 52J-V067 pins 73, 74, and 86 to 69 (aircraft ground)? .....	m	ac
ac. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 79R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-V044C from no. 10 relay panel assembly.		
(4) Does continuity exist between:		
52P-V044C pin f and 52J-V067 pin 73		
52P-V044C pin T and 52J-V067 pin 74		
52P-V044C pin U and 52J-V067 pin 86? .....	l	t


**Table 1A. Maverick Weapon Station 7 115vac Power Control Fail -  
F/A-18 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
ad. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.  (1) 52P-D024C  (2) 52P-V044A  (3) 52P-V044B  (4) 52P-V044C  (5) 61P-W112  (6) 61P-W012C  (7) 61P-W099A  (8) 61P-F001B  (9) Doors 10R, 14R, 79R, 502, 504  (10) Aircraft Wing Pylon SUU-63()  (11) Jumper Wire (61P-W099A)		

**Table 2. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
AGM-65 Maverick Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP052 00 and WP051 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Memory inspect data used in this procedure is provided in WP010 19.	

**Table 2. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-117( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Maverick Jumper Cable W56227 No. 2 Circuit Breaker Panel Assembly No. 2 Relay Panel Assembly No. 4 Circuit Breaker Panel Assembly Right Wing Outboard Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	v
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W099A (Maverick jumper cable W56227) from AN/AWM-92 test set.		
(4) Connect jumper wire between 61P-W099A pin a (AGM-65 Ident) and aircraft ground.		
(5) Connect jumper wire between 61P-W099A pin H (LAU-117 Ident) and aircraft ground.		
(5) Close BRU-32 FWD and AFT hooks.		
(6) Turn electrical power on (A1-F18AC-LMM-000).		
(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		

**Table 2. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(9) On RDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
(c) Is 1 MAV symbol on stores display for station 8? .....	c	d
c. Troubleshoot Station 8 Does Not Display 1 MAV On Stores Display (WP010 29, Table 1) .....	-	-
d. Memory inspect station 8 (weapon) power control (CORESV+6/BIT 11) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+6 (table 2, WP010 19).		
(2) On RDDI, does DATA readout display XXXX2X? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ae. ....	-	-
f. Does 115vac exist between 61P-W099A pins v, x, y and pin g (aircraft ground)? .....	h	g
g. Replace right outboard Aircraft Guided Missile Launcher LAU-117( ) (A1-F18AC-740-300, WP037 03). Do step ae. ....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(4) Does continuity exist between:		
61P-W112 pin 39 and 61P-W099A pin v		
61P-W112 pin 49 and 61P-W099A pin x		
61P-W112 pin 60 and 61P-W099A pin y		
61P-W112 pin 50 and 61P-W099A pin g? .....	i	j
i. Replace Maverick jumper cable W56227 (A1-F18AC-740-300, WP037 03). Do step ae .....	-	-

**Table 2. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-F058D from no. 2 relay panel assembly.		
(4) Does continuity exist between:		
52P-F058D pin C and 61P-W099A pin v		
52P-F058D pin D and 61P-W099A pin x		
52P-F058D pin E and 61P-W099A pin y		
Aircraft ground and 61P-W099A pin g? .....	k	n
k. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
52J-V068 pin 95 and 52P-F058D pin C		
52J-V068 pin 96 and 52P-F058D pin D		
52J-V068 pin 97 and 52P-F058D pin E		
52J-V068 pin 107 and aircraft ground? .....	l	m
ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
52J-V068 pin 73 and 52P-F058D pin C		
52J-V068 pin 74 and 52P-F058D pin D		
52J-V068 pin 86 and 52P-F058D pin E		
52J-V068 pin 69 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ae .....	-	-
m. Replace right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ae .....	-	-
n. Do substeps below:		
(1) Disconnect 52P-F058C from no. 2 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between 52P-F058C pin 38 and pin 78 (aircraft ground)? .....	o	p

**Table 2. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect 61P-F001B from armament computer.		
(3) Does continuity exist between 61P-F001B pin 24 and 52P-F058C pin 38? . . . . .	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect 61P-F001B from armament computer.		
(3) Does continuity exist between 61P-F001B pin 28 and 52P-F058C pin 73? . . . . .	l	q
q. Do substeps below:		
(1) Turn electrical power on (A1-F18AC-LMM-000).		
(2) Does 115vac exist between 52P-F058D pins S, A, B, and aircraft ground?. . . . .	r	u
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) On 161353 THRU 161359, disconnect 52P-D026C from no. 4 circuit breaker panel assembly.		
(4) On 161360 AND UP, disconnect 52P-D024C from no. 2 circuit breaker panel assembly.		
(5) On 161353 THRU 161359, does continuity exist between:		
52P-D026C pin p and 52P-F058D pin S		
52P-D026C pin a and 52P-F058D pin A		
52P-D026C pin b and 52P-F058D pin B? . . . . .	l	s
(6) On 161360 AND UP, does continuity exist between:		
52P-D024C pin p and 52P-F058D pin S		
52P-D024C pin a and 52P-F058D pin A		
52P-D024C pin b and 52P-F058D pin B? . . . . .	l	t
s. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and ARM STA 8 circuit breakers (61CBD080, 61CBD081, and 61CBD082) (A1-F18AC-420-300, WP025 00). Do step ae. . . . .	-	-



**Table 2. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
t. Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 8 circuit breakers (61CBD080, 61CBD081, and 61CBD082) (A1-F18AC-420-300, WP024 00). Do step ae. ....	-	-
u. Isolate malfunction between no. 2 relay panel assembly wiring and station 8 power control relay (61K-F128) (A1-F18AC-420-300, WP032 00). Do substep ae. ....	-	-
v. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W099A (Maverick jumper cable W56227) from LAU-117 launcher.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(7) On RDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
(c) Is 1 MAV symbol on stores display for station 8? ....	z	w
w. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from encoder-decoder.		
(4) Does short exist between:		
61P-W012C pin HH (AGM-65 Ident) and aircraft ground		
61P-W012C pin u (LAU-117 Ident) and aircraft ground? ....	x	y
x. Replace Right Wing Outboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ae. ....	-	-
y. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		

**Table 2. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(2) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(3) Does short exist between:  61P-W012C pin HH (AGM-65 Ident) and aircraft ground 61P-W012C pin u (LAU-117 Ident) and aircraft ground? .....	i	m
z. Memory inspect station 8 (weapon) power control (CORESV+6/BIT 11) by doing substeps below.		
(1) Using unit address 06, memory inspect address for ref code CORESV+6 (table 2, WP010 19).		
(2) On RDDI, does DATA readout display XXXX2X? .....	aa	e
aa. Does 115vac exist between 61P-W099A pins v, x, y, and pin g (aircraft ground)? .....	g	ab
ab. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) On Maverick jumper cable W56227, does continuity exist between:  61P-W112 pin 39 and 61P-W099A pin v 61P-W112 pin 49 and 61P-W099A pin x 61P-W112 pin 60 and 61P-W099A pin y? .....	i	ac
ac. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does 115vac exist between 52J-V068 pins 95, 96, 97, and pin 107 (aircraft ground)? .....	m	ad
ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does 115vac exist between 52J-V068 pins 73, 74, 86, and pin 69 (aircraft ground)? .....	m	ad
ad. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		

**Table 2. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-F058D from no. 2 relay panel assembly.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
52P-F058D pin C and 52J-V068 pin 95		
52P-F058D pin D and 52J-V068 pin 96		
52P-F058D pin E and 52J-V068 pin 97? .....	1	u
ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
52P-F058D pin C and 52J-V068 pin 73		
52P-F058D pin D and 52J-V068 pin 74		
52P-F058D pin E and 52J-V068 pin 86? .....	1	u
ae. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		
(1) 52P-D024C		
(2) 52P-D026C		
(3) 52P-F058C		
(4) 52P-F058D		
(5) 61P-W112		
(6) 61P-W012C		
(7) 61P-W099A		
(8) 61P-F001B		
(9) Doors 10R, 14R, 502, 504		
(10) Aircraft Wing Pylon SUU-63( )		
(11) Jumper wire (61P-W099A) .....	-	-

**Table 2A. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
<p>Weapon Station 8 Power Control Schematic, AGM-65 Maverick Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP033 03, WP052 02 and WP051 00) may be used as aids when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p>		
Malfunction is caused by one of the items listed below:		
<p>Aircraft Weapons Control Test Set AN/AWM-92  Aircraft Wing Pylon SUU-63( )  Aircraft Wiring  Armament Computer CP-1342/AYQ-9(V)  LAU-117 Jumper Cable W56227  No. 2 Circuit Breaker Panel Assembly  No. 10 Relay Panel Assembly  Right Wing Outboard Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
NOTE		
<p>The question used in logic tree "Does continuity exist" means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u
b. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W099A from AN/AWM-92 test set.		
(4) Connect jumper wires between aircraft ground and 61P-W099A pins a and H.		

**Table 2A. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(5) Close BRU-32( ) FWD and AFT hooks.		
(6) Turn electrical power on (A1-F18AC-LMM-000).		
(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(8) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(9) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 1 MAV or 1 MAVF symbol on stores display for station 8? .....	c	d
c. Troubleshoot Station 8 Does Not Display 1 MAV or 1 MAVF On Stores Display (WP010 29, table 1) .....	-	-
d. Memory inspect station 8 (weapon) power control (CORESV+8/BIT 12) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+8 (table 2, WP010 19) .....	-	-
<b>NOTE</b>		
WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display XXXX1X? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist from 61P-W099A pins v, x, and y to g (aircraft ground)? .....	h	g
g. Replace Aircraft Weapons Control Test Set AN/AWM-92. Do step ad. ....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		

**Table 2A. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(4) Does continuity exist between:</p> <p>61P-W112 pin 39 and 61P-W099A pin v  61P-W112 pin 49 and 61P-W099A pin x  61P-W112 pin 60 and 61P-W099A pin y  61P-W112 pin 50 and 61P-W099A pin g? .....</p>	i	j
i. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step ad. ....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open door 79R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-V044C from no. 10 relay panel assembly.		
(4) Does continuity exist between:		
52P-V044C pin e and 61P-W099A pin v 61P-W112 pin 49 and 61P-W099A pin x 61P-W112 pin 60 and 61P-W099A pin y Aircraft ground and 61P-W099A pin g? .....	k	n
k. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-V068 pin 73 and 52P-V044C pin e 52J-V068 pin 74 and 52P-V044C pin d 52J-V068 pin 86 and 52P-V044C pin c 52J-V068 pin 69 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad. ....	-	-
n. Do substeps below:		
(1) In door 79R, disconnect 52P-V044B, from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist from 52P-V044B pin s to aircraft ground? .....	o	p

**Table 2A. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 24 and 52P-V044B pin s? . . . . .	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 28 and 52P-V044B pin e? . . . . .	l	q
q. Do substeps below:		
(1) In door 79R, disconnect 52P-V044A from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist from 52P-V044A pins A, B, and S to aircraft ground? . . . . .	r	t
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D024C from no. 2 circuit breaker panel assembly.		
(4) Does continuity exist between:		
52P-D024C pin p and 52P-V044A pin A		
52P-D024C pin a and 52P-V044A pin B		
52P-D024C pin b and 52P-V044A pin S? . . . . .	l	s
s. Isolate malfunction between No. 2 Circuit Breaker Panel Assembly wiring and ARM STA 8 circuit breakers (61CBD080, 61CBD081, and 61CBD082) (A1-F18AC-420-300, WP024 00). Do step ad. . . . .	-	-
t. Isolate malfunction between No. 10 Relay Panel Assembly wiring and station 8 power control relay (61K-V128) (A1-F18AC-420-300, WP042 00). Do substep ad. . . . .	-	-

**Table 2A. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>u. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W099A (LAU-117 Jumper Cable W56227) from LAU-117 launcher.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 MAV or MAVF symbol on stores display for station 8? .....</p>	y	v
<p>v. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012C from encoder-decoder.</p> <p>(4) Does short exist between</p> <p>61P-W012C pin u (LAU-117 Ident) and aircraft ground</p> <p>61P-W012C pin HH (AGM-65 Ident) and aircraft ground? .....</p>	w	x
<p>w. Replace Right Outboard Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....</p>	-	-
<p>x. Do substeps below:</p> <p>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W112 from AIR-GND pylon disconnect.</p> <p>(3) Does short exist between</p> <p>61P-W012C pin u and aircraft ground</p> <p>61P-W012C pin HH and aircraft ground? .....</p>	i	m



**Table 2A. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>y. Memory inspect station 8 (weapon) power control (CORESV+8/BIT 12) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+8 (table 2, WP010 19).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
<p>(2) On RDDI, does DATA readout display XXXX1X? .....</p>	z	e
<p>z. Does 115vac exist between 61P-W099A pins v, x, y, and pin g (aircraft ground)? .....</p>	g	aa
<p>aa. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.</p> <p>(4) On Maverick jumper cable W56227, does continuity exist between:</p> <p>61P-W112 pin 39 and 61P-W099A pin v 61P-W112 pin 49 and 61P-W099A pin x 61P-W112 pin 60 and 61P-W099A pin y? .....</p>	i	ab
<p>ab. Do substeps below:</p> <p>(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) Does 115vac exist from 52J-V068 pins 73, 74, and 86 to 69 (aircraft ground)? .....</p>	m	ac
<p>ac. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 79R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-V044C from no. 10 relay panel assembly.</p>		

**Table 2A. Maverick Weapon Station 8 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(4) Does continuity exist between:</p> <p>52P-V044C pin e and 52J-V068 pin 73</p> <p>52P-V044C pin d and 52J-V068 pin 74</p> <p>52P-V044C pin c and 52J-V068 pin 86? .....</p> <p>ad. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.</p> <p>(1) 52P-D024C</p> <p>(2) 52P-V044A</p> <p>(3) 52P-V044B</p> <p>(4) 52P-V044C</p> <p>(5) 61P-W112</p> <p>(6) 61P-W012C</p> <p>(7) 61P-W099A</p> <p>(8) 61P-F001B</p> <p>(9) Aircraft Wing Pylon SUU-63( )</p> <p>(10) Doors 10R, 14R, 79R, 502, 504</p> <p>(11) Jumper Wires (61P-W099A) .....</p>	l	t

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

TROUBLESHOOTING - AGM-65 MAVERICK WEAPON SYSTEM TEST USING  
AN/AWM-92 TEST SET, PART 2

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

## 1. INTRODUCTION.

AGM-65 Maverick weapon system test failed on stations 2, 3, 7, or 8.

2. The AN/AWM-92 troubleshooting tables in this work package provide fault isolation when the

3. Tables 1, 2, 3, 4, 5 and 6 are the troubleshooting tables referred to in Table 1, WP025 02.

Table 1. Slew Enable Fail

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
74D20030-1001	Proximity Switch Control	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP051 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Armament Computer CP-1342/AYQ-9(V) LAU-117 Jumper Cable W56227 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to multimeter during stray voltage testing, observe the list below:</p> <ul style="list-style-type: none"><li>a. Start testing with multimeter on highest range scale.</li><li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li><li>c. Test for AC and DC voltages.</li><li>d. Record any stray voltage readings as an aid when during further troubleshooting.</li></ul>		

Table 1. Slew Enable Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/rescessed pins in a connector are a common cause of stray voltage.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
a. Is troubleshooting being done for voltage existing when it should be off? . . . . .	b	i
b. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.		
(3) Connect jumper wire between 61P-W099A pin a (AGM-65 Ident) and aircraft ground.		
(4) Connect jumper wire between 61P-W099A pin h (Selected Missile Ready) and aircraft ground.		
(5) Connect jumper wire between 61P-W099A pin H (LAU-117 Ident) and aircraft ground.		
(6) Open door 14R (A1-F18AC-LMM-010).		
(7) On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 65 (MAV) or 66 (MAVF) for station under test.		
(8) On station under test, close hooks on BRU-32 and set ground safety handle to LOCKED.		

Table 1. Slew Enable Fail (Continued)

Procedure	No	Yes
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(9) If not connected, connect proximity switch control (A1-F18AC-LMM-000).		
(10) Turn on electrical power (A1-F18AC-LMM-000)		
(11) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(12) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.		
(13) ON RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press and release STORES pushbutton switch.		
(14) On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(15) On master arm control panel assembly, press and release A/G switch.		
(16) On RDDI, press and release MAV or MAVF pushbutton switch.		
(17) On aircraft controller grip assembly, push sensor control switch to the right and release (TDC assigned to RDDI).		
(18) On master arm control panel assembly, set MASTER switch to ARM.		
(19) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(20) On right throttle grip assembly, press and hold TDC switch.		
(21) Using unit address 06, memory inspect address for ref code <span style="border: 1px solid black; padding: 0 2px;">1</span> MSG7 WD2 or <span style="border: 1px solid black; padding: 0 2px;">2</span> MSG8 WD2 (table 2, WP010 19).		
(22) On RDDI, is DATA readout XXXX1X? .....	c	d
c. Do Throttle Designator Control Function Test (A1-F18AC-742-200, WP012 00) and do step n. ....	-	-

Table 1. Slew Enable Fail (Continued)

Procedure	No	Yes
<p>d. Do substeps listed below:</p> <p>(1) Make sure electrical Power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012C from J3 on encoder-decoder.</p> <p>(4) Does continuity exist between 61P-W099A pin b and 61P-W012C pin q? . . . . .</p>	f	e
<p>e. Malfunction is caused by one of the items listed below:</p> <p>(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).</p> <p>Do step 1. . . . .</p>	-	-
<p>f. Do substeps listed below:</p> <p>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W112 from 61J-W112.</p> <p>(3) Does continuity exist between 61P-W112 pin 22 and 61P-W099A pin b? . . . . .</p>	g	h
g. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step 1 . . . . .	-	-
h. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step 1 . . . . .	-	-
<p>i. Do substeps listed below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.</p> <p>(3) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-W012C from J3 on encoder-decoder.</p> <p>(5) Turn on electrical power (A1-F18AC-LMM-010).</p> <p>(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(7) Does stray voltage exist between 61P-W099A pin b and aircraft ground? . . . . .</p>	j	k

Table 1. Slew Enable Fail (Continued)

Procedure	No	Yes
j. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step 1 . . . . .	-	-
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from 61J-W112.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 61J-W112 pin 22 and aircraft ground? . . . . .	g	h
l. If disconnected, removed or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-W012C		
(2) 61P-W099A		
(3) 61P-W112		
(4) Disconnect proximity switch control.		
(5) Doors 502, 504 . . . . .	-	-
<b>LEGEND</b>		
<div>1</div> <div>2</div> <div>On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</div> <div>On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</div>		



Table 2. Slave Enable Fail

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
74D20030-1001	Proximity Switch Control	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP051 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 LAU-117 Jumper Cable W56227 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to multimeter during stray voltage testing, observe the list below:</p> <ul style="list-style-type: none"><li>a. Start testing with multimeter on highest range scale.</li><li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li><li>c. Test for AC and DC voltages.</li><li>d. Record any stray voltage readings as an aid when during further troubleshooting.</li></ul>		

Table 2. Slave Enable Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/recessed pins in a connector are a common cause of stray voltage.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
a. Is troubleshooting being done for voltage existing when it should be off? . . . . .	b	i
b. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.		
(3) Connect jumper wire between 61P-W099A pin a (AGM-65 Ident) and aircraft ground.		
(4) Connect jumper wire between 61P-W099A pin h (Selected Missile Ready) and aircraft ground.		
(5) Connect jumper wire between 61P-W099A pin H (LAU-117 Ident) and aircraft ground.		
(6) Open door 14R (A1-F18AC-LMM-010).		
(7) On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 65 (MAV) or 66 (MAVF) for station under test.		
(8) On station under test, close hooks on BRU-32 and set ground safety handle to LOCKED.		

Table 2. Slave Enable Fail (Continued)

Procedure	No	Yes
<div>WARNING</div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p> <p>(9) If not connected, connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(10) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(11) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(12) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.</p> <p>(13) ON RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press and release STORES pushbutton switch.</p> <p>(14) On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(15) On master arm control panel assembly, press and release A/G switch.</p> <p>(16) On RDDI, press and release MAV or MAVF pushbutton switch.</p> <p>(17) On aircraft controller grip assembly, push sensor control switch to the right and release (TDC assigned to RDDI).</p> <p>(18) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(19) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(20) On right throttle grip assembly, press and release cage/uncage switch.</p> <p>(21) On right throttle grip assembly, move TDC switch full left and hold.</p> <p>(22) Using unit address 06, memory inspect address for ref code <input type="text" value="1"/> MSG7 WD2 or <input type="text" value="2"/> MSG8 WD2 (table 2, WP010 19).</p> <p>(23) On RDDI, is DATA readout XXXX2X? .....</p>		
	c	d

Table 2. Slave Enable Fail (Continued)

Procedure	No	Yes
c. Do Throttle Designator Control Function Test (A1-F18AC-742-200, WP012 00) and do step 1 .....	-	-
d. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from J3 on encoder-decoder.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) ON GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 61P-W099A pin J and aircraft ground? .....	e	f
e. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step 1. ....	-	-
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from 61J-W112.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 61J-W112 pin 59 and aircraft ground? .....	g	h
g. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03) and do step 1 .....	-	-
h. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step 1 .....	-	-
i. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from J3 on encoder-decoder.		

Table 2. Slave Enable Fail (Continued)

Procedure	No	Yes
<p>(4) Does continuity exist between 61P-W099A pin J and 61P-W012C pin GG? . . . . .</p> <p>j. Malfunction is caused by one of the items listed below:</p> <p>(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AE-740-300, WP006 00).</p> <p>(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).</p> <p>Do step 1 . . . . .</p> <p>k. Do substeps listed below:</p> <p>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W112 from 61J-W112.</p> <p>(3) Does continuity exist between 61P-W112 pin 59 and 61P-W099A pin J? . . . . .</p> <p>l. If disconnected, removed or opened during this procedure, make sure the items listed below are connected, installed, or closed:</p> <p>(1) 61P-W012C</p> <p>(2) 61P-W099A</p> <p>(3) 61P-W112</p> <p>(4) Disconnect proximity switch control.</p> <p>(5) Doors 502, 504</p> <p>(6) Remove jumper wires (61P-W099A pins a, h and H to ground) . . . . .</p>	<p>k</p> <p>-</p> <p>g</p> <p>-</p>	<p>j</p> <p>-</p> <p>h</p> <p>-</p>
<p style="text-align: center;"><b>LEGEND</b></p> <p>1 ➡ On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p>2 ➡ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 3. Slave Command Failure


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP051 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Armament Computer CP-1342/AYQ-9(V) LAU-117 Jumper Cable W56227 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;">NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</li> <li>(2) Disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.</li> </ol>		

Table 3. Slave Command Failure (Continued)

Procedure	No	Yes
<p>(3) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-W012C from J3 of encoder-decoder.</p> <p>(5) Does continuity exist from:</p> <p>61P-W012C pin p to 61P-W099A pin e  61P-W012C pin T to 61P-W099A pin f? .....</p>	c	b
<p>b. Malfunction is caused by one of the items listed below:</p> <p>(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).</p> <p>Do step f .....</p>	-	-
<p>c. Do substeps listed below:</p> <p>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W112 from 61J-W112.</p> <p>(3) Does continuity exist from:</p> <p>61P-W112 pin 12 to 61P-W099A pin e  61P-W112 pin 13 to 61P-W099A pin f? .....</p>	d	e
<p>d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step f .....</p>	-	-
<p>e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step f .....</p>	-	-
<p>f. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:</p> <p>(1) 61P-W012C</p> <p>(2) 61P-W099A</p> <p>(3) 61P-W112</p> <p>(4) Doors 502, 504 .....</p>	-	-

Table 4. Slew Command Failure


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN 74D20030-1001	Multimeter Proximity Switch Control	
<b>Materials Required</b>  None		
<b>NOTE</b>  Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP051 00) may be used as an aid when doing this procedure.  For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below: <div style="margin-left: 20px; padding-left: 20px;">             Aircraft Wing Pylon SUU-63( )              Armament Computer CP-1342/AYQ-9(V)              LAU-117 Jumper Cable W56227              Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)           </div>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;">  </div> <p style="text-align: center;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center; margin-bottom: 10px;"> <b>NOTE</b> </div> <p style="text-align: center;">The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>6. Shield continuity.</li> </ol> <div style="display: flex; justify-content: space-between; align-items: flex-start; margin-top: 20px;"> <div style="width: 70%;"> <p>a. Do substeps listed below:</p> <p style="margin-left: 20px;">(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> </div> <div style="width: 28%; border-left: 1px solid black; border-right: 1px solid black; height: 100px;"></div> </div>		



Table 4. Slew Command Failure (Continued)

Procedure	No	Yes
<p>(2) Disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.</p> <p>(3) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-W012C from J3 of encoder-decoder.</p> <p>(5) Does continuity exist from:</p> <p style="padding-left: 40px;">61P-W012C pin s to 61P-W099A pin K</p> <p style="padding-left: 40px;">61P-W012C pin r to 61P-W099A pin L? .....</p>	c	b
<p>b. Malfunction is caused by one of the items listed below:</p> <p style="padding-left: 40px;">(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p style="padding-left: 40px;">(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).</p> <p>Do step f .....</p>	-	-
<p>c. Do substeps listed below:</p> <p style="padding-left: 40px;">(1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p style="padding-left: 40px;">(2) Disconnect 61P-W112 from 6LJ-W112.</p> <p style="padding-left: 40px;">(3) Does continuity exist from:</p> <p style="padding-left: 80px;">61P-W112 pin 10 to 61P-W099A pin K</p> <p style="padding-left: 80px;">61P-W112 pin 11 to 61P-W099A pin L? .....</p>	d	e
<p>d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step f .....</p>	-	-
<p>e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step f .....</p>	-	-
<p>f. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:</p> <p style="padding-left: 40px;">(1) 61P-W012C</p> <p style="padding-left: 40px;">(2) 61P-W099A</p> <p style="padding-left: 40px;">(3) 61P-W112</p> <p style="padding-left: 40px;">(4) Doors 502, 504 .....</p>	-	-

Table 5. Test Set, AC POWER Light Does Not Come On

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Power Distribution Schematic (A1-F18AC-420-500, WP005 00) may be used as an aid when doing this procedure.		
For component locations, refer to A1-F18AC-420-500, WP003 00.		
Malfunction is caused by one of the items below:		
Aircraft Wiring No. 8 Circuit Breaker/Relay Panel Assembly		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div>NOTE</div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <div>CAUTION</div> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jump- er wires are installed on correct pins. When electrical power is off, 24VDC battery voltage exists on some pins of connector listed below:</p>		
52P-C159G		

Table 5. Test Set, AC POWER Light Does Not Come On (Continued)

Procedure	No	Yes
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect test set, power cable from UTILITY PWR RECP 1J-G089.		
(3) Connect multimeter leads to 1J-G089 pin A and D (ground).		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) Does 28vdc exist at 1J-G089 pin A? .....	b	e
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C159G from no. 8 circuit breaker/relay panel assembly.		
(4) Does continuity exist from:		
1J-G089 pin A to 52P-C159G pin 28		
1J-G089 pin D to aircraft ground? .....	c	d
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step i .....	-	-
d. Isolate malfunction between no. 8 circuit breaker/relay panel assembly wiring and 1CBC088 (A1-F18AC-420-300, WP030 00) and do step i. ....	-	-
e. Do substeps listed below:		
(1) Connect multimeter ground lead to 1J-G089 pin B.		
(2) Does 115vac exist at 1J-G089 pins E, F and G? .....	f	h
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C159G from no. 8 circuit breaker/relay panel assembly.		
(4) Does continuity exist from:		
1J-G089 pin E to 52P-C159G pin 31		
1J-G089 pin F to 52P-C159G pin 30		
1J-G089 pin G to 52P-C159G pin 29		
1J-G089 pin B to aircraft ground? .....	c	g

Table 5. Test Set, AC POWER Light Does Not Come On (Continued)

Procedure	No	Yes
g. Isolate malfunction between no. 8 circuit breaker/relay panel assembly wiring and 1CBC085, 1CBC086 and 1CBC087 (A1-F18AC-420-300, WP030 00) and do step i . . . . .	-	-
h. Reconnect test set and check AC POWER light or power cable and do step i . . . . .	-	-
i. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 52P-C159G		
(2) Door 10L . . . . .	-	-

Table 6. Video Display Fail

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) and Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP051 00) may be used as aids when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63 ( ) Aircraft Wiring Armament Computer CP-1342/AYK-9(V) LAU-117 Jumper Cable W56227		
Procedure	No	Yes
NOTE		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step.		
2. Shorts to ground.		
3. Shorts between surrounding pins on connectors.		
4. Shorts between shield and conductors.		
5. Shield continuity.		

Table 6. Video Display Fail (Continued)

Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W096 from 61J-W096 on pylon stores electrical disconnect panel.</p> <p>(4) Does continuity exist between:</p> <p>61P-W096 SKT and 61P-W099A pin w 61P-W096 PIN and 61P-W099A pin U? .....</p>	b	c
<p>b. Replace LAU-117 Maverick Jumper Cable W56227 (A1-F18AC-740-300, WP037 03) and do step h. ....</p>	-	-
<p>c. Do substeps listed below:</p> <p>(1) Open door 14R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-F001C (stations 2 and 3) or 61P-F001D (stations 7 and 8) from Armament Computer CP-1342/AYK-9(V).</p> <p>(3) Does continuity exist between:</p> <p>Station 2: 61J-W096 PIN and 61P-F001D center conductor 61J-W096 SKT and 61P-F001D inner shield</p> <p>Station 3: 61J-W096 PIN and 61P-F001E center conductor 61J-W096 SKT and 61P-F001E inner shield</p> <p>Station 7: 61J-W096 PIN and 61P-F001J center conductor 61J-W096 SKT and 61P-F001J inner shield</p> <p>Station 8: 61J-W096 PIN and 61P-F001H center conductor 61J-W096 SKT and 61P-F001H inner shield? .....</p>	d	g
<p>d. Do substeps listed below:</p> <p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p>		

Procedure	No	Yes
<p>(2) Does continuity exist between:</p> <p>Station 2:  61P-F001D center conductor and 52J-U062 pin 2A  61P-F001D inner shield and 52J-U062 pin 2B</p> <p>Station 3:  61P-F001E center conductor and 52J-U063 pin 2A  61P-F001E inner shield and 52J-U063 pin 2B</p> <p>Station 7:  61P-F001J center conductor and 52J-V067 pin 2A  61P-F001J inner shield and 52J-V067 pin 2B</p> <p>Station 8:  61P-F001H center conductor and 52J-V068 pin 2A  61P-F001H inner shield and 52J-V068 pin 2B? .....</p>	e	f
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h .....	-	-
f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step h .....	-	-
g. Replace Armament Computer CP-1342/AYK-9(V) (A1-F18AC-740-300, WP006 00) and do step h. ....	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-F00D		
(2) 61P-F001E		
(3) 61P-F001J		
(4) 61P-F001H		
(5) 61P-W096		
(6) Aircraft Wing Pylon SUU-63( )		
(7) Door 14R and Door 502 .....	-	-

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

TROUBLESHOOTING - AGM-65 MAVERICK WEAPON SYSTEM TEST USING  
AN/AWM-92 TEST SET, PART 3

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

## 1. INTRODUCTION.

AGM-65 Maverick weapon system test failed on stations 2, 3, 7, or 8.

2. The AN/AWM-92 troubleshooting tables in this work package provide fault isolation when the

3. Tables 1, 2, 3, 4, 5, 6 and 7 are the troubleshooting tables referred to in Table 1, WP025 02.

Table 1. Dome Cover Power Failure


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>  None		
<b>NOTE</b>  Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP051 00) may be used as an aid when doing this procedure.  For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:  <div style="margin-left: 40px;">             Aircraft Wing Pylon SUU-63( )              Armament Computer CP-1342/AYQ-9(V)              LAU-117 Jumper Cable W56227              Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)           </div>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;">  </div> <p style="margin-left: 40px;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center; margin: 10px 0;"><b>NOTE</b></p> <p style="margin-left: 40px;">The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p style="margin-left: 20px;">a. Do substeps listed below:</p> <p style="margin-left: 40px;">(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p>		



Table 1. Dome Cover Power Failure (Continued)

Procedure	No	Yes
(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.		
(3) On pylon, open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012C from J3 on encoder-decoder.		
(5) Does continuity exist from 61P-W099A pin P to 61P-W012C pin C? . . . . .	c	b
b. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
Do step f . . . . .	-	-
c. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from 61J-W112.		
(3) Does continuity exist between 61P-W112 pin 24 to 61P-W099A pin P? . . . . .	d	e
d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step f . . . . .	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step f . . . . .	-	-
f. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-W012C		
(2) 61P-W099A		
(3) 61P-W112		
(4) Doors 502, 504 . . . . .	-	-

Table 2. Launch Command Failure


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
74D20030-1001	Proximity Switch Control	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP051 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Armament Computer CP-1342/AYQ-9(V) LAU-117 Jumper Cable W56227 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to multimeter during stray voltage testing, observe the list below:</p> <ol style="list-style-type: none"> <li>Start testing with multimeter on highest range scale.</li> <li>Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>Test for AC and DC voltages.</li> <li>Record any stray voltage readings as an aid when during further troubleshooting.</li> </ol>		

Table 2. Launch Command Failure (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/recessed pins in a connector are a common cause of stray voltage.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
a. Is troubleshooting being done for voltage existing when it should be off? . . . . .	b	i
b. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.		
(3) Connect jumper wire between 61P-W099A pin a (AGM-65 Ident) and aircraft ground.		
(4) Connect jumper wire between 61P-W099A pin h (Selected Missile Ready) and aircraft ground.		
(5) Connect jumper wire between 61P-W099A pin H (LAU-117 Ident) and aircraft ground.		
(6) Open door 14R (A1-F18AC-LMM-010).		
(7) On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 65 (MAV) or 66 (MAVF) for station under test.		
(8) On station under test, close hooks on BRU-32( ) and set ground safety handle to LOCKED.		

Table 2. Launch Command Failure (Continued)

Procedure	No	Yes
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: fit-content;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(9) If not connected, connect proximity switch control (A1-F18AC-LMM-000).		
(10) Turn on electrical power (A1-F18AC-LMM-000).		
(11) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(12) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.		
(13) ON RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press and release STORES pushbutton switch.		
(14) On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(15) On master arm control panel assembly, press and release A/G switch.		
(16) On RDDI, press and release MAV or MAVF pushbutton switch.		
(17) On aircraft controller grip assembly, push sensor control switch forward and release (TDC assigned to HUD).		
(18) On master arm control panel assembly, set MASTER switch to ARM.		
(19) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(20) On right throttle grip assembly, press and release TDC switch.		
(21) On aircraft controller grip assembly, press A/G weapon release switch.		
(22) Using unit address 06, memory inspect address for ref code MSG2 WD3 (table 2, WP043 00).		
(23) On RDDI, is DATA readout XXXXX4? .....	c	d

Table 2. Launch Command Failure (Continued)

Procedure	No	Yes
c. Troubleshoot A/G Weapon Release Switch Fail (do applicable table 3 or 4, WP012 00) and do step 1 . . . . .	-	-
d. Do substeps listed below:		
(1) Make sure electrical Power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from J3 on encoder-decoder.		
(4) Does continuity exist between 61P-W099A pin r and 61P-W012C pin F? . . . . .	f	e
e. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
Do step 1 . . . . .	-	-
f. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from 61J-W112.		
(3) Does continuity exist between 61P-W112 pin 96 and 61P-W099A pin r? . . . . .	g	h
g. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step 1 . . . . .	-	-
h. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step 1 . . . . .	-	-
i. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.		
(3) On pylon, open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012C from J3 on encoder-decoder.		
(5) Turn on electrical power (A1-F18AC-LMM-010).		


Table 2. Launch Command Failure (Continued)

Procedure	No	Yes
(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(7) Does stray voltage exist between 61P-W099A pin r and aircraft ground? . . . . .	j	k
j. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from 61J-W112.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 61J-W112 pin 96 and aircraft ground? . . . . .	g	h
l. If disconnected, removed or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-W012C		
(2) 61P-W099A		
(3) 61P-W112		
(4) Doors 502, 504 . . . . .	-	-

Table 3. Laser Code Failure

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP051 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	

**Table 3. Laser Code Failure (Continued)**

Malfunction is caused by one of the items listed below:																				
Aircraft Wing Pylon SUU-63( ) Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 LAU-117 Jumper Cable W56227 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)																				
Procedure	No	Yes																		
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">(1) Make sure electrical power is off (A1-F18AC-LMM-000).</td><td style="width: 10%;"></td><td style="width: 10%;"></td></tr> <tr> <td>(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.</td><td></td><td></td></tr> <tr> <td>(3) On pylon, open door 504 (A1-F18AC-LMM-010).</td><td></td><td></td></tr> <tr> <td>(4) Disconnect 61P-W012C from J3 on encoder-decoder.</td><td></td><td></td></tr> <tr> <td>(5) Does continuity exist from 61P-W099A pin Z to 61P-W012C pin e? .....</td><td style="text-align: center;">c</td><td style="text-align: center;">b</td></tr> </table> <p>b. Malfunction is caused by one of the items listed below:</p> <ol style="list-style-type: none"> <li>(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-741-300, WP006 00).</li> <li>(2) Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00).</li> <li>(3) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).</li> </ol> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Do step f .....</td><td style="width: 10%; text-align: center;">-</td><td style="width: 10%; text-align: center;">-</td></tr> </table>			(1) Make sure electrical power is off (A1-F18AC-LMM-000).			(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.			(3) On pylon, open door 504 (A1-F18AC-LMM-010).			(4) Disconnect 61P-W012C from J3 on encoder-decoder.			(5) Does continuity exist from 61P-W099A pin Z to 61P-W012C pin e? .....	c	b	Do step f .....	-	-
(1) Make sure electrical power is off (A1-F18AC-LMM-000).																				
(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.																				
(3) On pylon, open door 504 (A1-F18AC-LMM-010).																				
(4) Disconnect 61P-W012C from J3 on encoder-decoder.																				
(5) Does continuity exist from 61P-W099A pin Z to 61P-W012C pin e? .....	c	b																		
Do step f .....	-	-																		

**Table 3. Laser Code Failure (Continued)**

Procedure	No	Yes
c. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from 61J-W112.		
(3) Does continuity exist between 61P-W112 pin 47 to 61P-W099A pin Z? .....	d	e
d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step f .....	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step f .....	-	-
f. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-W012C		
(2) 61P-W099A		
(3) 61P-W112		
(4) Doors 502, 504 .....	-	-

**Table 4. Field of View (FOV) Failure -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP051 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	



**Table 4. Field of View (FOV) Failure -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 LAU-117 Jumper Cable W56227 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<b>NOTE</b>		
The question used in logic tree "Does continuity exist" means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.		
(3) On pylon, open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012C from J3 on encoder-decoder.		
(5) Does continuity exist from 61P-W099A pin V to 61P-W012C pin z? .....	c	b
b. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-741-300, WP006 00).		
(2) Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00).		
(3) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
Do step f .....	-	-
c. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		

**Table 4. Field of View (FOV) Failure -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) Disconnect 61P-W112 from 61J-W112.		
(3) Does continuity exist between 61P-W112 pin 58 to 61P-W099A pin V? .....	d	e
d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step f .....	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step f .....	-	-
f. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-W012C		
(2) 61P-W099A		
(3) 61P-W112		
(4) Doors 502, 504 .....	-	-

**Table 5. Tracking Mode Failure -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP051 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	

**Table 5. Tracking Mode Failure -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 LAU-117 Jumper Cable W56227 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<b>NOTE</b>		
The question used in logic tree "Does continuity exist" means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.		
(3) On pylon, open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012C from J3 on encoder-decoder.		
(5) Does continuity exist from 61P-W099A pin Z to 61P-W012C pin e? .....	c	b
b. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00).		
(3) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
Do step f .....	-	-
c. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		

**Table 5. Tracking Mode Failure -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) Disconnect 61P-W112 from 61J-W112.		
(3) Does continuity exist between 61P-W112 pin 47 to 61P-W099A pin Z? . . . . .	d	e
d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step f. . . . .	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step f. . . . .	-	-
f. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-W012C		
(2) 61P-W099A		
(3) 61P-W112		
(4) Doors 502, 504 . . . . .	-	-

**Table 6. Ship Track Failure -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP051 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	

**Table 6. Ship Track Failure -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 LAU-117 Jumper Cable W56227 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<b>NOTE</b>		
The question used in logic tree "Does continuity exist" means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.		
(3) On pylon, open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012C from J3 on encoder-decoder.		
(5) Does continuity exist from 61P-W099A pin s to 61P-W012C pin M? . . . . .	c	b
b. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00).		
(3) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
Do step f . . . . .	-	-
c. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		

**Table 6. Ship Track Failure -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) Disconnect 61P-W112 from 61J-W112.		
(3) Does continuity exist from 61P-W112 pin 38 to 61P-W099A pin s? . . . . .	d	e
d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step f. . . . .	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step f. . . . .	-	-
f. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-W012C		
(2) 61P-W099A		
(3) 61P-W112		
(4) Doors 502, 504 . . . . .	-	-

**Table 7. Boresight (BST) Failure -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP051 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	

**Table 7. Boresight (BST) Failure -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 LAU-117 Jumper Cable W56227 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<b>NOTE</b>		
The question used in logic tree "Does continuity exist" means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect P2 of W4 test cable from 61P-W099A on LAU-117 jumper cable.		
(3) On pylon, open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012C from J3 on encoder-decoder.		
(5) Does continuity exist from 61P-W099A pin k to 61P-W012C pin k? .....	c	b
b. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00).		
(3) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
Do step f .....	-	-
c. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		

**Table 7. Boresight (BST) Failure -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) Disconnect 61P-W112 from 61J-W112.		
(3) Does continuity exist between 61P-W112 pin 88 to 61P-W099A pin k? . . . . .	d	e
d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03). Do step f. . . . .	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step f. . . . .	-	-
f. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-W012C		
(2) 61P-W099A		
(3) 61P-W112		
(4) Doors 502, 504 . . . . .	-	-



ORGANIZATIONAL MAINTENANCE

TESTING AND TROUBLESHOOTING

TROUBLESHOOTING - AGM-65 MAVERICK WEAPON STATION POWER CONTROL, PART 3

SUSPENSION AND RELEASE MECHANISMS

Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

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Record of Applicable Technical Directives

None

Table 1. Maverick Weapon Station 2 28vdc Power Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2 Power Control Schematic and Weapon Station 2, 3, 7 and 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP027 00 and WP051 00) may be used as aids when doing this procedure.	
For component location, refer to WP007 00.	

**Table 1. Maverick Weapon Station 2 28vdc Power Fail (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Aircraft Wiring LAU-117 Jumper Cable W56227 No. 7 Circuit Breaker/Relay Panel Assembly		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect P2 of W4 test cable from 61P-W099A on Maverick Jumper Cable W56227.		
(3) Open door 10L (A1-F18AC-LMM-010).		
(4) Disconnect 52P-C057C from 52J-C057C on the no. 7 circuit breaker/relay panel assembly.		
(5) Does continuity exist between 61P-W099A pin C and 52P-C057C pin r? . . . . .	c	b
b. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and ARM STA 2 circuit breaker (61CBC055) (A1-F18AC-420-300, WP027 00) and do step h . . . . .	-	-
c. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from 61J-W112.		
(3) Does continuity exist between 61P-W112 pin 1 and 61P-W099A pin C? . . . . .	d	e


**Table 1. Maverick Weapon Station 2 28vdc Power Fail (Continued)**

Procedure	No	Yes
d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03) and do step h . . . . .	-	-
e. Do substeps listed below:		
(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between 52J-U062 pin 94 and 52P-C057C pin r? . . . . .	f	g
f. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h . . . . .	-	-
g. Replace left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step h . . . . .	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		
(1) 52P-C057C		
(2) 61P-W112		
(3) Aircraft Wing Pylon SUU-63( )		
(4) Doors 10L, 502 . . . . .	-	-

**Table 2. Maverick Weapon Station 3 28vdc Power Fail**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 3 Power Control Schematic and Weapon Station 2, 3, 7 and 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP028 00 and WP051 00) may be used as aids when doing this procedure.	
For component location, refer to WP007 00.	

**Table 2. Maverick Weapon Station 3 28vdc Power Fail (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Aircraft Wiring LAU-117 Jumper Cable W56227 No. 7 Circuit Breaker/Relay Panel Assembly		
Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect P2 of W4 test cable from 61P-W099A on Maverick Jumper Cable W56227.		
(3) Open door 10L (A1-F18AC-LMM-010).		
(4) Disconnect 52P-C057C from 52J-C057C on the no. 7 circuit breaker/relay panel assembly.		
(5) Does continuity exist between 61P-W099A pin C and 52P-C057C pin k? . . . . .	c	b
b. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and ARM STA 3 circuit breaker (61CBC059) (A1-F18AC-420-300, WP027 00) and do step h . . . . .	-	-
c. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from 61J-W112.		
(3) Does continuity exist between 61P-W112 pin 1 and 61P-W099A pin C? . . . . .	d	e


**Table 2. Maverick Weapon Station 3 28vdc Power Fail (Continued)**

Procedure	No	Yes
d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03) and do step h . . . . .	-	-
e. Do substeps listed below:		
(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between 52J-U063 pin 94 and 52P-C057C pin k? . . . . .	f	g
f. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h . . . . .	-	-
g. Replace left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step h . . . . .	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		
(1) 52P-C057C		
(2) 61P-W112		
(3) Aircraft Wing Pylon SUU-63( )		
(4) Doors 10L, 502. . . . .	-	-

**Table 3. Maverick Weapon Station 7 28vdc Power Fail**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 7 Power Control Schematic and Weapon Station 2, 3, 7, and 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP032 00 and WP051 00) may be used as aids when doing this procedure.	
For component location, refer to WP007 00.	

**Table 3. Maverick Weapon Station 7 28vdc Power Fail (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Aircraft Wiring LAU-117 Jumper Cable W56227 No. 4 Circuit Breaker/Relay Panel Assembly		
Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect P2 of W4 test cable from 61P-W099A on Maverick Jumper Cable W56227.		
(3) Open door 10R (A1-F18AC-LMM-010).		
(4) Disconnect 52P-D026C from 52J-D026C on the no. 4 circuit breaker panel assembly.		
(5) Does continuity exist between 61P-W099A pin C and 52P-D026C pin u? .....	c	b
b. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and ARM STA 7 circuit breaker (61CBD075) (A1-F18AC-420-300, WP025 00) and do step h .....	-	-
c. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from 61J-W112.		
(3) Does continuity exist between 61P-W112 pin 1 and 61P-W099A pin C?. .....	d	e


**Table 3. Maverick Weapon Station 7 28vdc Power Fail (Continued)**

Procedure	No	Yes
d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03) and do step h . . . . .	-	-
e. Do substeps listed below:		
(1) Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between 52J-V067 pin 94 and 52P-D026C pin u? . . . . .	f	g
f. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h . . . . .	-	-
g. Replace right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step h . . . . .	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		
(1) 52P-D026C		
(2) 61P-W112		
(3) Aircraft Wing Pylon SUU-63( )		
(4) Doors 10R, 502 . . . . .	-	-

**Table 4. Maverick Weapon Station 8 28vdc Power Fail**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 8 Power Control Schematic and Weapon Station 2, 3, 7, and 8 AGM-65 Maverick Schematic (A1-F18AC-740-500, WP033 00 and WP051 00) may be used as aids when doing this procedure.	
For component location, refer to WP007 00.	

**Table 4. Maverick Weapon Station 8 28vdc Power Fail (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Aircraft Wiring LAU-117 Jumper Cable W56227 No. 4 Circuit Breaker/Relay Panel Assembly		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect P2 of W4 test cable from 61P-W099A on Maverick Jumper Cable W56227.		
(3) Open door 10R (A1-F18AC-LMM-010).		
(4) Disconnect 52P-D026C from 52J-D026C on the no. 4 circuit breaker panel assembly.		
(5) Does continuity exist between 61P-W099A pin C and 52P-D026C pin t? .....	c	b
b. Isolate malfunction between no. 4 circuit breaker/relay panel assembly wiring and ARM STA 8 circuit breaker (61CBD079) (A1-F18AC-420-300, WP025 00) and do step h .....	-	-
c. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from 61J-W112.		
(3) Does continuity exist between 61P-W112 pin 1 and 61P-W099A pin C? .....	d	e



**Table 4. Maverick Weapon Station 8 28vdc Power Fail (Continued)**

Procedure	No	Yes
d. Replace LAU-117 Jumper Cable W56227 (A1-F18AC-740-300, WP037 03) and do step h . . . . .	-	-
e. Do substeps listed below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between 52J-V068 pin 94 and 52P-D026C pin t? . . . . .	f	g
f. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h . . . . .	-	-
g. Replace right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step h . . . . .	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		
(1) 52P-D026C		
(2) 61P-W112		
(3) Aircraft Wing Pylon SUU-63( )		
(4) Doors 10R, 502 . . . . .	-	-



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - AGM-65F IR MAVERICK WEAPON SYSTEM TEST

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 or F/A-18 AFC 292

## Reference Material

Airborne Weapons/StoresLoading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Weapon Control System .....	A1-F18AC-740-200
Initiated Built-In Test .....	WP009 00
Stores Management System and Suspension and Release Mechanism Locator .....	WP007 00
Stores Management System Circuit Breakers .....	WP008 00
Weapon Control System .....	A1-F18AC-740-500
Reference Tables .....	WP009 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Maverick Weapon System Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>System Required Components</b>		
All system components installed.		
<b>Related Systems Required</b>		
Avionics Cooling System Electrical System Flight Incident Recorder and Monitoring System Mission Computer System Multipurpose Display Group		
<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
1328AS1100	Aircraft Weapon Control Test Set (AN/AWM-92A)	
74D420030-1001	Proximity Switch Control	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
Test results will be invalid if the following support equipment change codes are not listed on the AN/AWM-92 Support Equipment Change Plate.		
5177		
Component locations are shown in WP007 00.		
Test displays are shown in figure 1.		
Video displays are shown in figure 2.		
Test equipment hookup is shown in figure 3.		
For the remainder of this test, test set refers to Aircraft Weapon Control Test Set (AN/AWM-92).		

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).</p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p>To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.</p> <p>a. Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>b. Make sure all weapons are removed from aircraft.</p> <p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33 ( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on BRU-41/BRU-42 if installed on aircraft.</p> <p>g. If gun installed, make sure gun electrical signal safety switch is set to safe (extended) position, aft of door 6.</p> <p>h. If gun installed, make sure gun holdback mechanism handle is set to cleared; gun holdback handle indicator (extended).</p> <p>i. Make sure AN/ALE-39 dispensers are removed from aircraft.</p>		

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>2. TEST SET HOOKUP (SELF TEST).</p> <p>a. Remove W1 test cable, W2 power cable, W13 power adapter, W4 test cable, and W5 ground strap from test set accessory container.</p>		
<div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p>To prevent injury to personnel and/or damage to aircraft or test equipment, test set must be grounded to aircraft.</p>		
<p>b. Connect screw end of W5 ground strap to ground lug of test set.</p> <p>c. Connect clamp end of W5 ground strap to any aircraft ground.</p> <p>d. Connect P2 of W2 power cable to J2 of test set.</p> <p>e. Connect P1 of W2 power cable to P1 of W13 power adapter.</p> <p>f. Connect P2 of W13 power adapter to aircraft UTILITY PWR RECP 1J-G089 in nose wheelwell on left side.</p> <p>g. Connect P1 of W1 test cable to J1 of test set.</p> <p>h. Connect P2 of W1 test cable to J3 of test set.</p>		
<p>3. PRELIMINARY.</p> <p>a. Open door 14R (A1-F18AC-LMM-010).</p> <p>b. On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 66 and FUZING N and T switches to 0 for station under test.</p>		

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>c. On station under test, close hooks on Aircraft Bomb Ejector Rack BRU-32 ( ) and set ground safety handle to LOCKED.</p> <p>d. If BRU-33, BRU-41/BRU-42 or empty BRU-32( ) is installed, open hooks and set applicable ARMAMENT switches to 00. Set remaining FUZING switches to zero.</p> <p>e. If non-droppable store installed, set applicable ARMAMENT switches to correct code for store (Table 1, A1-F18AC-740-500, WP007 00).</p> <p>f. On Aircraft Guided Missile Launcher LAU-116( ) make sure all launcher hooks are closed and SAFETY RELEASE is rotated clockwise.</p> <p>g. Do nose wheelwell digital display indicator built-in test/reset procedure (A1-F18AC-LMM-000).</p>	SAFETY RELEASE INDICATOR shows GREEN-hooks locked.	<p>1. With hooks closed, rotate SAFETY RELEASE clockwise.</p> <p>2. If safety release will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;"> <b>WARNING</b> </div> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>h. Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>i. On RH console: Make sure release consent dummy panel is installed.</p> <p>j. Apply electrical power A1-F18AC-LMM-000).</p> <p>k. Connect ground intercommunications (A1-F18AC-LMM-000).</p>		

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>4. TEST SET, SELF TEST.</p> <p>a. On test set, set AC POWER switch to ON and do substeps listed below for self test:</p>	<p>1. Test set, AC POWER light comes on and remains on.</p> <p>2. Test set VALUE display counts up to 128.</p> <p>3. Test set keyboard (key), RESET, LAMP TEST, KYBD TEST, ACFT TYPE CLEAR and 0 through 9 lights come on.</p>	<p>Do table 1 (WP031 02).</p> <p>Repair or replace test set.</p> <p>Repair or replace test set.</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>Test set key, RESET light remains on throughout test. Test set keys RPT, CLEAR, and 0 through 9 come on at various times during the test. Unless specifically called out these lights are ignored.</p>		
<p>b. Set INTENSITY switch to HIGH.</p> <p>c. Press and release LAMP TEST key.</p>	<p>All key lights come on, one section of 12 keys at a time, starting with left section. Test set VALUE and STEP display displays decimal point, plus/minus sign and then steps through all segments of display by sequencing through all digits 0 through 9.</p>	<p>Repair or replace test set.</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>During keyboard test, keys come on one at a time and go off when key is pressed.</p>		
<p>d. Press and release KYBD TEST key.</p>	<p>Key light comes on.</p>	<p>Repair or replace test set.</p>
<p>e. On test set, press and release lit key.</p>	<p>Key light goes off.</p>	<p>Repair or replace test set.</p>
<p>f. Repeat step e until all key lights are tested.</p>		
<p>g. Press and release ACFT TYPE key.</p>	<p>Test set, RUN and RESET key lights come on.</p>	<p>Repair or replace test set.</p>



Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p style="text-align: center;"><b>NOTE</b></p> <p>Test Set self test runs approximately 1 minute. At start of test, observe test set displays most current required SEC number for 15 seconds then cycles through test. At end of test, 0 appears in the STEP and VALUE display and key UUT GO and RESET lights come on.</p>		
<p>h. Press and release RUN key.</p> <p>i. On test set, set AC POWER switch to OFF.</p> <p>j. Disconnect P1 and P2 of W1 test cable from test set.</p> <p>5. TEST SET HOOKUP (AIRCRAFT TEST).</p> <p>a. Connect P1 of W4 test cable to J1 of test set.</p> <p>b. On station being tested, if not installed, install Maverick Jumper Cable W56227 by connecting 61P-W102 to 61J-W102, 61P-W112 to 61J-W112 and 61P-W096 to 61J-W096.</p> <p>c. Connect P2 of W4 test cable to 61P-W099A of Maverick Jumper Cable W56227.</p> <p>6. BIT AND MAVERICK INTERFACE.</p> <p>a. On SNSR pod control box panel assembly, make sure RADAR switch is OFF.</p>	<p>1. Test set STEP display, cycles through test steps. The TIP key light comes on during test.</p> <p>2. STEP GO key comes on when steps pass.</p> <p>3. VALUE display indicates 0 and UUT GO light comes on.</p>	<p>Repair or replace test set.</p>

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p style="text-align: center;"><b>NOTE</b></p> <p>If a malfunction occurs during this test, make sure circuit breakers shown in WP008 00 are closed.</p>		
<p>b. On GND PWR control panel assembly, set and hold 1 and 2 switches to B ON for 30 seconds.</p>	Switches remain on (latched).	<p>1. If switches unlatch in 10 to 30 seconds, apply external cooling air to aircraft (A1-F18AC-LMM-000).</p> <p>2. If no switches remain on, do GND PWR Switching System Test (A1-F18AC-420-200, WP006 00).</p> <p>3. If one but not all switches remain on, replace GND PWR Control Panel Assembly (A1-F18AC-420-300, WP023 00).</p>
<p>c. On MC/HYD ISOL control panel assembly, set MC switch to NORM.</p>		
<p>d. On left and right Digital Display Indicator (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.</p>	<p>1. LDDI and RDDI have displays and center pushbutton switch on bottom row is labeled MENU.</p> <p>2. LDDI has cautions and advisories displayed.</p>	<p>1. No display on LDDI: Do table 1 (A1-F18AC-745-200, WP006 00).</p> <p>2. No display on RDDI: Do table 2 (A1-F18AC-745-200, WP006 00).</p> <p>3. If STANDBY is displayed: Do table 2 (A1-F18AC-745-200, WP004 00).</p> <p>4. If BRT or CONT controls do not affect display, replace left or right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p> <p>Replace left Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p>
<p>e. On Horizontal Indicator (HI) set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.</p>	HI and HSI display.	<p>1. No display on HI: Do table 3 (A1-F18AC-745-200, WP006 00).</p> <p>2. If BRT or CONT controls do not affect display, replace Horizontal Indicator: (A1-F18AC-745-300, WP006 00).</p>

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
f. On headup display unit (HUD), turn BRT control cw from OFF position and set HUD-DAY/NIGHT control to DAY or NIGHT. Allow 2 minute warmup and adjust BRT control for best display.	HUD has display.	1. No display on HUD: Do table 4 (A1-F18AC-745-200, WP006 00).  2. If BRT control does not affect display, replace HUD (A1-F18AC-745-300, WP003 00).
g. On test set, set AC POWER switch to ON.	1. Test set, AC POWER light comes on and remains on.  2. Test set keyboard (key), RESET, LAMP TEST, KYBD TEST, ACFT TYPE, CLEAR and 0 through 9 lights come on.	Do table 1 (WP031 02).  Repair or replace test set.
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If improper entry is made press CLEAR key and repeat step.</p>		
h. On test set, press 1, 8, and 2 keys.	Test set, VALUE display indicates 182.	Repair or replace test set.
i. On test set, press and release ACFT TYPE key.	Test set, RUN key light comes on.	Repair or replace test set.
j. On test set, press and release RUN key.	Test set, STEP display indicates 100 and VALUE display indicates 1. MNL ACTN and RUN key lights come on.	Repair or replace test set.
k. On RDDI press and release MENU pushbutton switch until BIT pushbutton option is displayed.	Menu display appears on RDDI.	Replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).
l. On RDDI, press and release BIT pushbutton switch.	BIT control display appears on RDDI.	Replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">After completion of Initiated Built-In Test (BIT), 1, 2 and 3 switches are left at B ON to continue with this test.</p>		
m. On RDDI, press and release STORES pushbutton switch.	STORES BIT display appears on RDDI	Replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
n. Do Initiated Built-In Test steps 3 and 4 (WP009 00).		
7. RELEASE PROCEDURES.		
<p style="text-align: center;"><b>NOTE</b></p> <p>In the following procedures, the RCL FAIL key recalls the step and associated value of faults detected during testing. Before using RCL FAIL, record the number displayed in the VALUE display. This is the number of faults detected during testing. The RCL FAIL key recalls one fault each time it is pressed and released.</p> <p>During this test, if a fault is detected and remedy refers to a table, do not shut down system or remove test set. Do applicable troubleshooting table.</p>		
a. On RDDI press and release MENU pushbutton switch until STORES pushbutton option is displayed.	Menu display appears on RDDI.	Replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).
b. On RDDI press and release STORES pushbutton switch.	1. Stores display appears with 1 MAVF under test station.	1. Transfer display to LDDI, if display is correct replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).
	2. SAFE displayed on RDDI.	2. Station 2: Do table 1 (WP010 23) Station 3: Do table 1 (WP010 25) Station 7: Do table 1 (WP010 28) Station 8: Do table 1 (WP010 29).
c. On test set, press and release RUN key.	Test set, STEP display indicates 100 and VALUE display indicates 0. STEP GO and RUN key lights come on.	Do table 2 (WP010 17).
d. On test set, press and release RUN key.	Test set, STEP display indicates 200 and VALUE display indicates 1. MNL ACTN and RUN key lights come on.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 1 (WP025 02).
e. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		Repair or replace test set.
f. On master arm control panel assembly, press and release A/G switch.	A/G indicator light comes on.	Do table 1, (WP010 34).

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
g. On RDDI press and release MAVF pushbutton switch.	Maverick display appears with MAVF boxed and not ready X through it.  2. Timer display on and counting down.	Transfer display to LDDI. If display is correct, replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).
<b>NOTE</b>		
If RDDI already designated, proceed to step i.		
h. On aircraft controller grip assembly, push sensor control to the right and release (TDC assigned to RDDI).	On RDDI, TDC diamond appears in upper right hand corner of display.	Do Throttle Designator control Functional test: 1 F/A-18A BEFORE F/A-18 AFC 292 do table 1, (A1-F18AC-742-200, WP012 00). 2 FA-18A AFTER F/A-18 AFC 292, do table 1 (A1-F18AH-742-200, WP012 00).
i. On RDDI, press and release DLY 2 pushbutton switch.	On RDDI, DLY 2 boxed.	Transfer display to LDDI. If display is correct, replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).
j. On LDDI, press and release MENU pushbutton switch until STORES pushbutton option is displayed.	Menu display appears on LDDI.	Replace left Digital Display Indicator: (A1-F18AC-745-300, WP004 00).
k. On LDDI, press and release STORES pushbutton option.	STORES display appears, MAVF boxed with not ready X through it and 1 MAVF boxed in the wing-form.	Replace left Digital Display Indicator: (A1-F18AC-745-300, WP004 00).
l. On master arm control panel assembly, set MASTER switch to ARM.	MASTER switch remains in ARM.	Replace Master Arm Control Panel Assembly (A1-F18AC-740-300, WP013 00).
m. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.	1. Switch remains engaged.  2. ARM is displayed on LDDI.	Do table 1 (WP012 00).  Do table 1 (WP010 17).
n. On test set, press and release RUN key.	On test set, STEP display indicates 200 and VALUE display indicates 2. MNL ACTN and RUN key lights come on.	Repair or replace test set.

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>System must be timed in (3 minute timing notice completed and removed from Maverick display, on RDDI) before continuing with procedure.</p> <p>Step p must be accomplished within 60 seconds of doing step o.</p>		
o. On test set, press and release RUN key.	After 10 seconds, RDDI displays straight grid lines with no vertical tearing and 7 shades of video in upper half of display.	1. Transfer display to LDDI. If display is correct, replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).
p. On right throttle grip, press and release RUN key.	1. On LDDI 1 MAVF is boxed and RDY in wingform. On RDDI, UNCAGED is displayed in upper right corner.  2. On test set, STEP display indicates 200 and VALUE display indicates 0. STEP GO and RUN lights come on.	Do table 5, WP012 00.  Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 1 (WP025 02).
q. On test set, press and release RUN key.	On test set, TIP key light comes on.	Repair or replace test set.
r. On right throttle grip, press and release cage/uncage switch.	1. On RDDI, CAGED displayed under TDC diamond.  2. On LDDI, 1 MAVF is boxed in STORES wingform.  3. On test set, STEP display indicates 300 and VALUE display indicates 0. STEP GO and RUN lights come on.	Do table 5, WP012 00.  Use RCL FAIL key on test set and record STEP and VALUE for each FAULT, then do table 1 (WP025 02).
s. On test set, press and release RUN key.	On test set, TIP key light comes on.	Repair or replace test set.
t. On RDDI, press and release FOV pushbutton switch two times.	On RDDI, FOV will box and unbox two times.	
u. On RDDI press and release TRACK WHT pushbutton switch.	1. On RDDI, TRACK WHT changes to TRACK BLK.  2. On test set, STEP display indicates 400 and VALUE display indicates 1. MNL ACTN and RUN key lights come on.	Do table 2 (WP025 06).  Repair or replace test set.

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
v. On RDDI, press and release SHIP pushbutton switch.	On RDDI, SHIP is boxed.	Do table 2 (WP025 06).
w. On test set, press and release RUN key.	On test set, STEP display indicates 400 and VALUE display indicates 0. STEP GO and RUN key lights come on.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 1 (WP025 02).
x. On right throttle grip, press and release cage/uncage switch.	On RDDI, UNCAGED displayed under TDC diamond.	Do table 5, WP012 00.
y. On test set, press and release RUN key.	On test set, STEP display indicates 800 and VALUE display indicates 1. MNL ACTN and RUN key lights come on.	Repair or replace test set.
z. On the test set, press RUN.	On the test set, the following lights/switches are illuminated: MNL ACTN, RUN, 800-2.	Repair or replace test set.
aa. On the right throttle grip, move the TDC switch full left, right, forward, aft then back to center and release.	On the HUD, Maverick line of sight symbol (↙ moves left, right, down and up.	Do Throttle Designator control Functional test 1 F/A-18A BEFORE F/A-18 AFC 292 do table 1, (A1-F18AC-742-200, WP012 00). 2 F/A-18A AFTER F/A-18 AFC 292, do table 1, (A1-F18AH-742-200, WP012 00).
ab. On the test set, press RUN.	On the test set, the following lights/switches are illuminated: STEP GO, RUN, 800-0.	Repair or replace test set.
ac. On the test set, press RUN.	On the test set, the following lights/switches are illuminated: MNL ACTN, RUN, 900-1.	Repair or replace test set.
ad. On the right throttle grip, press and hold the TDC switch.		
ae. On the test set, press RUN.	On the test set, the following lights/switches are illuminated: MNL ACTN, RUN, 900-2.	Repair or replace test set.

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
af. On the right throttle grip, move the TDC switch full left, right, forward, aft and release.	On the HUD, Maverick line of sight symbol(↙ moves left, right, down, and up. On the left DDI weapon select MAVF is boxed and RDY is displayed.	1. Do throttle Designator control Functional test <div>1</div> F/A-18A BEFORE F/A-18 AFC 292 do table 1, (A1-F18AC-742-200, WP012 00). <div>2</div> F/A-18A AFTER F/A-18 AFC 292, do table 1, (A1-F18AH-742-200, WP012 00).
ag. On aircraft controller grip assembly, push sensor control forward and release (assign TDC to HUD).		
ah. On right throttle grip assembly, press and release TDC.	1. Target designator symbol displayed on HUD.	1. Do Throttle Designator control Functional test <div>1</div> F/A-18A BEFORE F/A-18 AFC 292, do table 1, (A1-F18AC-742-200, WP012 00). <div>2</div> F/A-18A AFTER F/A-18 AFC 292, do table 1, (A1-F18AH-742-200, WP012 00).  2. Replace HSI: A1-F18AC-742-300, WP006 00).
ai. On aircraft controller grip assembly, push sensor control to the right and release (assign TDC to RDDI).	TBST displayed at pushbutton switch.	Do table 2 (WP010 05).
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Step ak must be done within 60 seconds of doing step aj.</p>		
aj. On test set, press and release RUN key.	On test set, TIP key light comes on.	Repair or replace test set.
ak. On RDDI, press and release TBST pushbutton switch.	On test set, STEP display indicates 900 and VALUE display indicates 0. STEP GO and RUN key lights come on.	Use RCL FAIL key on test set and record STEP and VALUE for each failure then do table 1 (WP025 02).
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Step am must be done within 30 seconds of doing step al.</p>		



Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
al. On test set, press and release RUN key.	On test set, STEP display indicates 1000 and VALUE display indicates 1. MNL ACTN and RUN key lights come on.	Repair or replace test set.
am. On test set, press and release RUN key.	On test set, TIP key light comes on.	Repair or replace test set.
an. On aircraft controller grip assembly, press and release A/G weapon release switch.	1. On test set, STEP display indicates 1000 and VALUE display indicates 0. STEP GO and RUN key lights come on.  2. On LDDI, X appears through weapon select MAVF. RDY is removed from MAVF on wingform.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 1 (WP025 02).
ao. On test set, press and release RUN key.	On test set, STEP display indicates 1100 and VALUE display indicates 0. STEP GO and RUN key lights come on.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 1 (WP025 02)
ap. On test set, press and release RUN key.	On test set, UUT GO key light comes on.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 1 (WP025 02).
aq. On LDDI, press and release MAVF pushbutton switch (MAVF deselected).	1. On LDDI, box removed from MAVF.  2. On RDDI, MAVF display replaced by MENU display.	Replace left Digital Display Indicator: (A1-F18AC-745-300, WP004 00).  Replace right Digital Display Indicator (A1-F18AC-745-300, WP004 00).
ar. On master arm control panel assembly, press and release A/G switch.	A/G indicator light goes off.	Do table 1, (WP010 32).
as. On master arm control panel assembly, set MASTER switch to SAFE.	1. SAFE displayed on LDDI.  2. ARMAMENT OVERRIDE switch disengages.	Do table 2 (WP010 17).  Do table 3 (WP010 17).

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>at. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to NORM and GEAR UPLOCK switch to NORM.</p> <p>au. On MC/HYD ISOL control panel assembly, position MC switch to 2 OFF and then back to NORM.</p> <p>av. On GND PWR control panel assembly, set 3 switch to AUTO.</p> <p>aw. On test set, set AC power switch to OFF.</p> <p>ax. Repeat steps 3a through 3e, 5b and 5c, 6g through 6n and 7a through 7aw for remaining stations or do SHUTDOWN.</p> <p>8. SHUTDOWN.</p> <p>a. On HSI set OFF/NIGHT/ DAY switch to OFF.</p> <p>b. On HUD set BRT control to OFF.</p> <p>c. On LDDI and RDDI, set power switch to OFF.</p> <p>d. On GND PWR control panel assembly, set 2 and 1 switches to AUTO.</p> <p>e. Disconnect ground intercommunications (A1-F18AC-LMM-000).</p> <p>f. Remove electrical power (A1-F18AC-LMM-000).</p> <p>g. Disconnect proximity switch control (A1-F18AC-LMM-000).</p> <p>h. Close door 14R (A1-F18AC-LMM-010).</p>	<p>TGT removed and WYPT displayed on HSI.</p>	<p>Replace HSI: (A1-F18AC-745-300, WP006 00).</p>

Table 1. Maverick Weapon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>i. Disconnect W13 power adapter from UTILITY PWR RECP 1J-G089.</p> <p>j. Disconnect W4 maverick cable from Maverick Jumper Cable W56227.</p> <p>k. Disconnect W5 ground strap from aircraft.</p> <p>l. Disconnect W5 ground strap, W2 power cable, and W4 maverick test cable from test set.</p> <p>m. Disconnect W13 power adapter cable from W2 power cable.</p> <p>n. Stow W13 power adapter, W2 power cable, W4 maverick test cable, W5 ground strap and W1 test cable in test set accessory container.</p>		
<p style="text-align: center;"><b>LEGEND</b></p> <p>1 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253</p> <p>2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 292</p>		

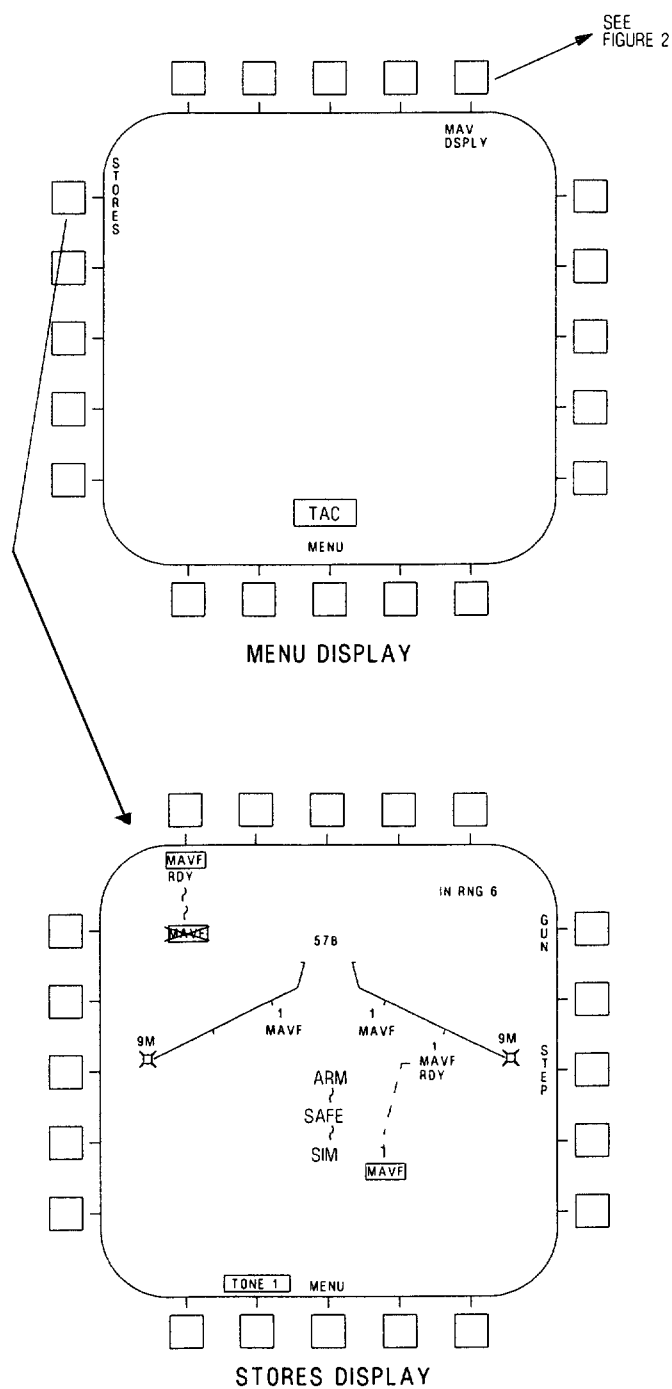


Figure 1. Test Displays (Sheet 1)

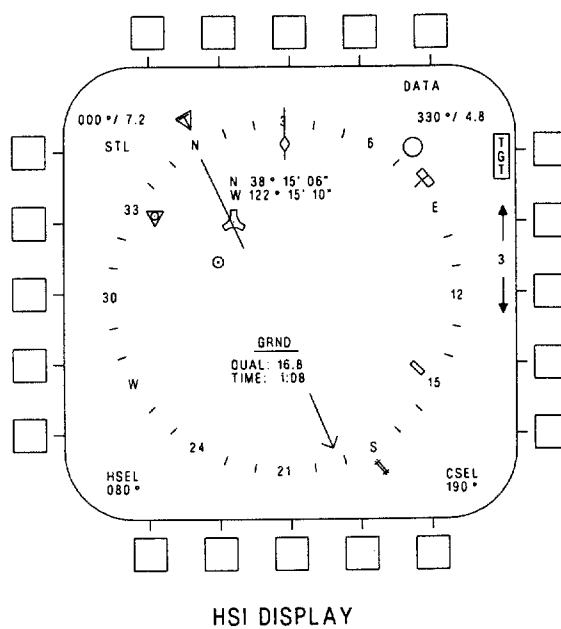
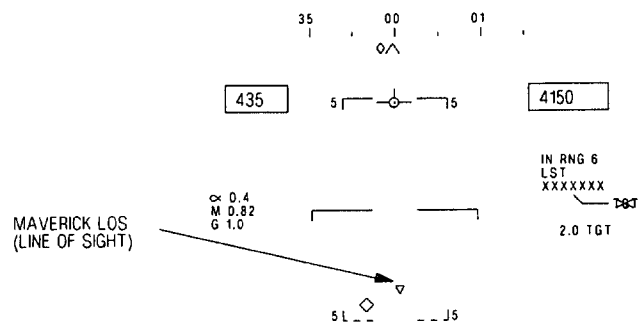
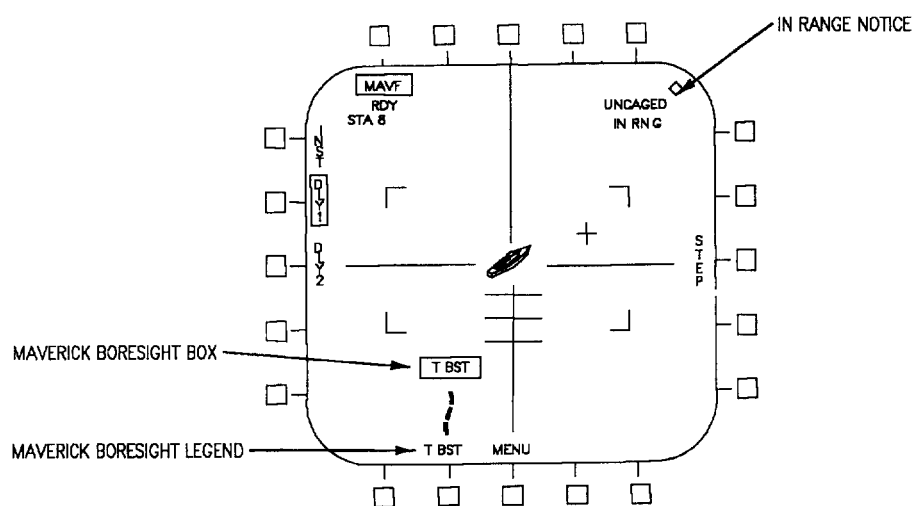
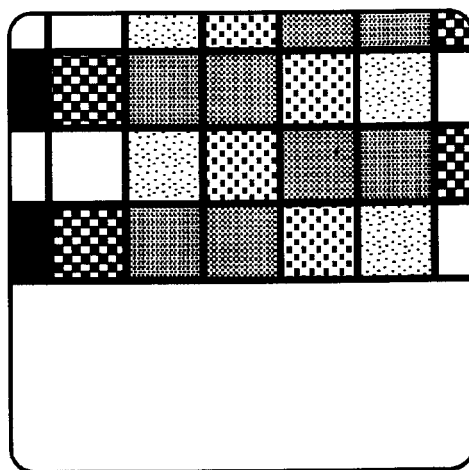


Figure 1. Test Displays (Sheet 2)

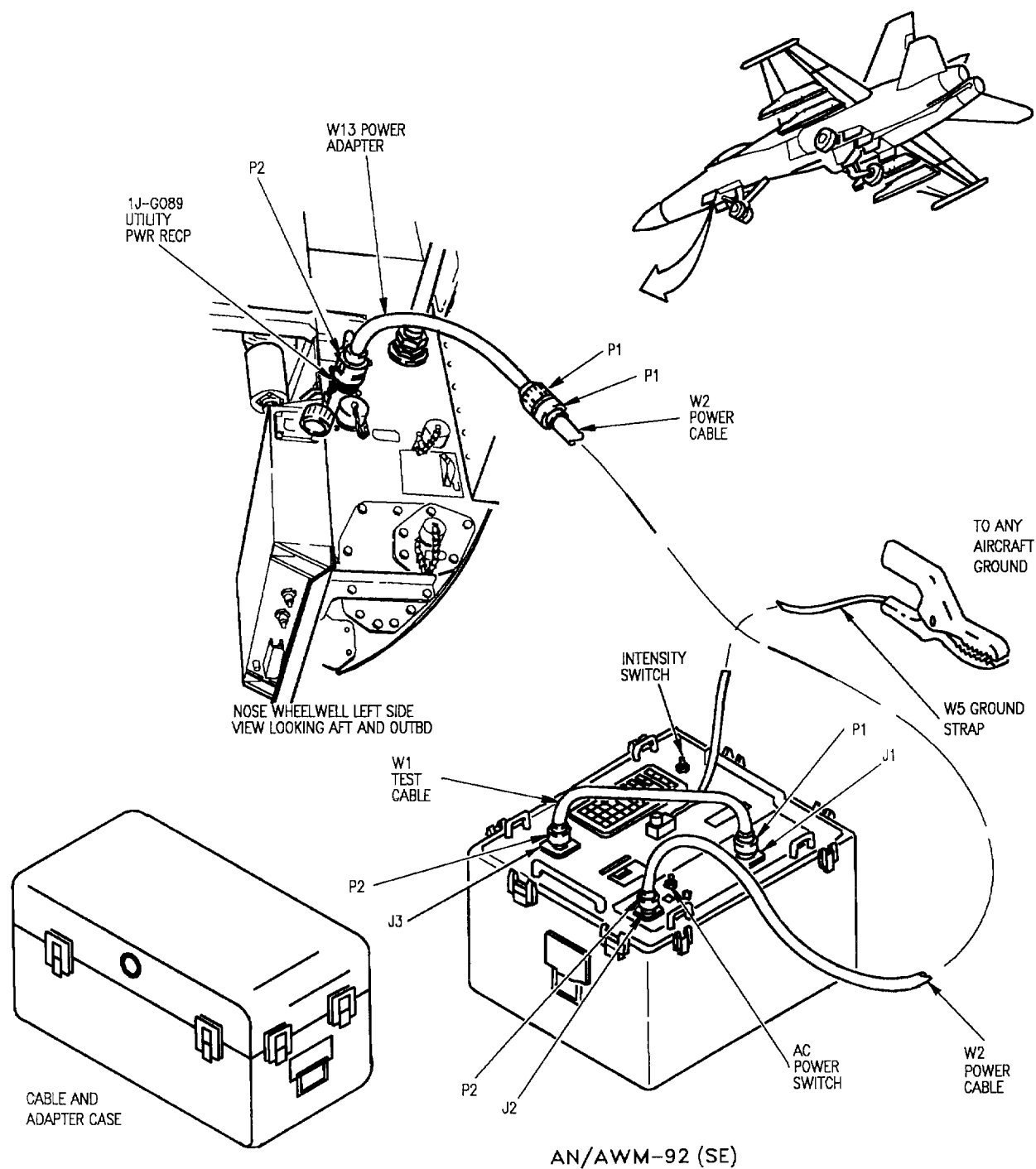


IR MAVERICK DISPLAY-TRACK MODE  
WIDE FIELD OF VIEW



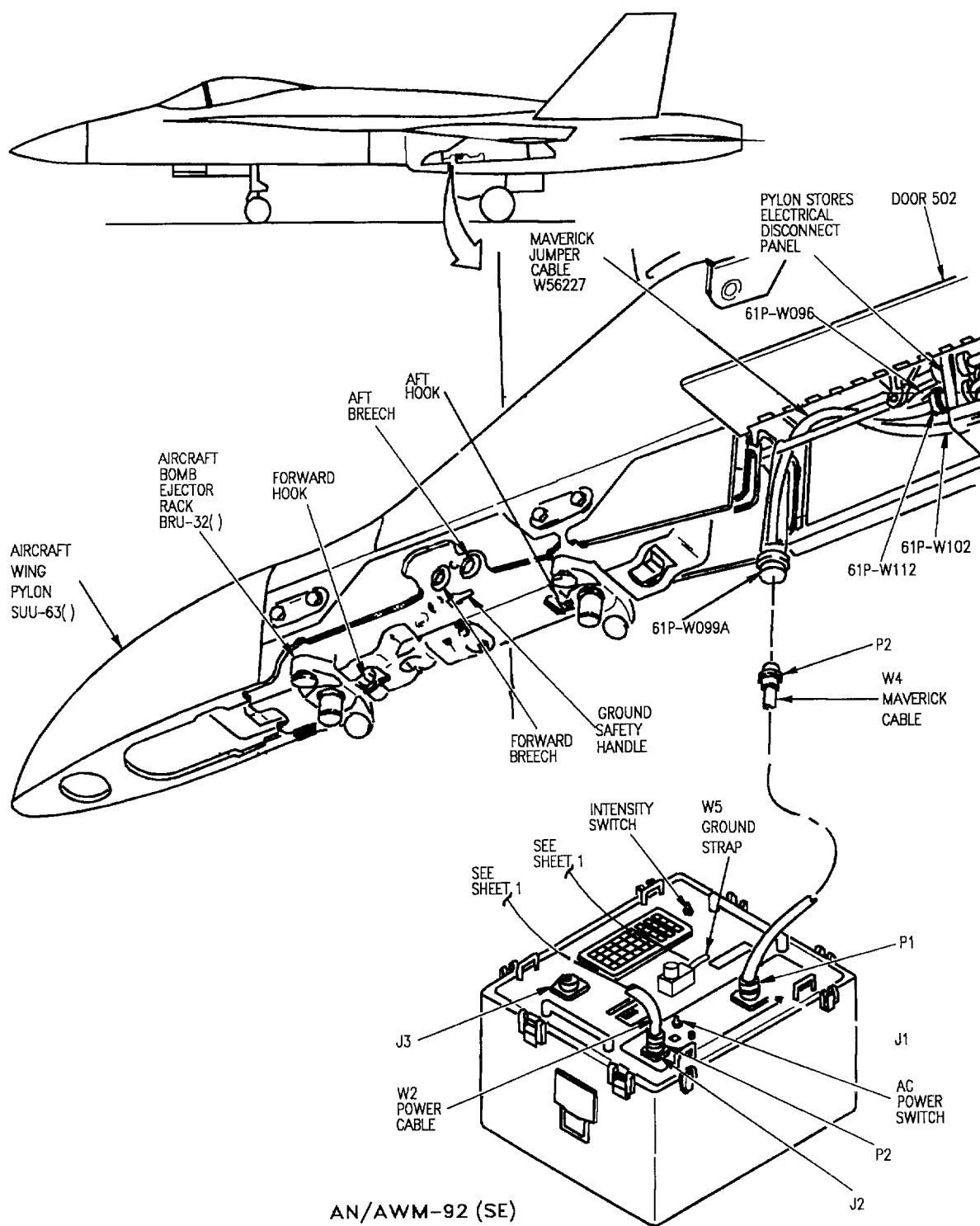
NORMAL VIDEO CROSSBAR DISPLAY  
(SEVEN SHADES OF GRAY)

Figure 2. Video Displays



25080301

Figure 3. Test Equipment Hookup (Sheet 1)



25080302

Figure 3. Test Equipment Hookup (Sheet 2)



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - AIM-7 WEAPON SYSTEM END TO END TEST

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: WITH - ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/ IDENT NUMBER 85A AND UP AND DIGITAL DATA COMPUTER NO. 1/ DIGITAL DATA COMPUTER NO. 2 CONFIG/IDENT NUMBER 85A AND UP (A1-F18AC-SCM-000)

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems. ....	A1-F18AC-740-200
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

## Alphabetical Index

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. AIM-7 End to End Test

Procedure	Normal Indication	Remedy for Abnormal Indication								
<p><b>System Required Components</b></p> <p>All system components installed.</p> <p><b>Related Systems Required</b></p> <p>Avionics Cooling System Electrical System Maintenance Status Display and Recording System Mission Computer System Multipurpose Display Group</p> <p><b>Support Equipment Required</b></p> <table><tr><th>Part Number or Type Designation</th><th>Nomenclature</th></tr><tr><td>74D750020-1001</td><td>Test - Breech Adapter</td></tr><tr><td>74D750050-1003, A/E-24T-216</td><td>Test - Set, Aircraft Wiring</td></tr><tr><td>01-31-D03-107</td><td>AIM-7 Motor Fire Cable</td></tr></table> <p><b>Materials Required</b></p> <p>None</p> <p><b>NOTE</b></p> <p>Component locations are shown in WP007 00.</p> <p>AIM-7 End to End maintenance BIT displays are shown on figure 1.</p> <p>End to End Test displays are shown on figure 2.</p> <p>Test equipment hookup is shown on figure 3.</p> <p>Items listed below, used in this test are part of Test-Set Aircraft Wiring A/E-24T-216:</p> <p>AIM-7 Test Adapter Breech Adapter Cable Launcher By-Pass Adapter Cable Launcher By-Pass Adapter Electrical Connector (wafer)</p>			Part Number or Type Designation	Nomenclature	74D750020-1001	Test - Breech Adapter	74D750050-1003, A/E-24T-216	Test - Set, Aircraft Wiring	01-31-D03-107	AIM-7 Motor Fire Cable
Part Number or Type Designation	Nomenclature									
74D750020-1001	Test - Breech Adapter									
74D750050-1003, A/E-24T-216	Test - Set, Aircraft Wiring									
01-31-D03-107	AIM-7 Motor Fire Cable									

Table 1. AIM-7 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).		
<p style="text-align: center;"><b>WARNING</b></p> <p>To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safeties before doing this test.</p>		
a. Make sure electrical power is off (A1-F18AC-LMM-000).		
b. Make sure all weapons are removed from aircraft. Fuel tanks, bomb racks, and launchers may remain installed.		
c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.		
d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.		
e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.		
f. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER), BRU-41/BRU-42 if installed on aircraft.		

Table 1. AIM-7 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>g. If applicable, make sure gun electrical signal safety switch is set to safe (extended) position, aft of door 6.</p> <p>h. Make sure gun holdback mechanism handle is set to cleared; gun holdback handle indicator (extended).</p> <p>i. Make sure AN/ALE-39 dispensers are removed from aircraft.</p> <p>2. TEST EQUIPMENT HOOKUP.</p> <p>a. Remove all umbilical covers from Aircraft Guided Missile Launchers LAU-115C/A and LAU-116( ) to be tested.</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>When station 2, 3, 7, or 8 is to be tested and a LAU-115C/A launcher is not installed, continue with step 2b.</p> <p>When station 2, 3, 7, or 8 is to be tested and a LAU-115C/A launcher is installed, go to step 2c.</p> <p>When station 4 or 6 is to be tested, go to step 2d.</p>		
<p>b. To test Outboard Wing Pylon SUU-63( ), do substeps listed below:</p> <p>(1) Remove launcher bypass adapter and AIM-7 test adapter from container.</p> <p>(2) Open door 502 on pylon (A1-F18AC-LMM-010).</p> <p>(3) Connect LAU-115C/A jumper cable to AIR-AIR receptacle, or W56235 to 61J-W093 and 61J-W112.</p> <p>1 (4) Connect launcher bypass adapter to connector 61P-W095A of LAU-115C/A jumper cable.</p> <p>2 (5) Connect launcher bypass adapter cable to LAU-115C/A jumper cable (P2 to 61P-W095B and P3 to 61P-W095A).</p>		

Table 1. AIM-7 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>2 (6) Connect launcher bypass adapter to connector P1 of launcher by-pass adapter cable.</p> <p>(7) Connect AIM-7 test adapter to launcher by-pass adapter and continue with PRELIMINARY steps.</p> <p>c. To test Aircraft Guided Missile Launcher LAU-115C/A, do substeps listed below:</p> <p>1 (1) Remove AIM-7 test adapter, wafer, and breech adapter cable from container, or 2 and electrical connector (wafer) from container.</p> <p>(2) Install wafer on launcher umbilical connector.</p> <p>(3) Connect AIM-7 test adapter wafer.</p> <p>(4) Connect AIM-7 motor fire cable to AIM-7 test adapter.</p> <p>(5) Connect AIM-7 motor fire cable to launcher motor fire connector.</p> <p>(6) Make sure Aircraft Guided Missile Launcher LAU-115C/A, SAFETY LOCK DRIVE is at LOCK and continue with PRELIMINARY steps.</p> <p>d. To test Aircraft Guided Missile Launcher LAU-116( ), do substeps listed below:</p> <p>(1) Remove forward and aft chamber assemblies from breeches.</p>	<p>On Aircraft Guided Missile Launcher LAU-115C/A, SAFETY INDICATOR shows GREEN-LOCKED.</p>	<p>1. Rotate SAFETY LOCK DRIVE to LOCK.</p> <p>2. If SAFETY LOCK DRIVE will not rotate, replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).</p>

Table 1. AIM-7 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>(2) Remove AIM-7 test adapter, wafer, and breech adapter cable from container.</p> <p>(3) Install wafer on launcher umbilical connector.</p> <p>(4) Connect AIM-7 test adapter wafer.</p> <p>(5) Connect AIM-7 motor fire cable to AIM-7 test adapter.</p> <p>(6) Connect AIM-7 motor fire cable to launcher motor fire connector.</p> <p>(7) Install breech test adapters in breeches.</p> <p>(8) Connect breech adapter cable to AIM-7 test adapter and breech test adapters.</p> <p>(9) Make sure all Aircraft Guided Missile Launcher LAU-116( ), hooks are closed and SAFETY RELEASE knob is rotated clockwise.</p> <p>3. PRELIMINARY.</p> <p>a. Open door 14R (A1-F18AC-LMM-010).</p>	<p>On Aircraft Guided Missile Launcher LAU-116( ), SAFETY RELEASE INDICATOR shows GREEN - HOOKS LOCKED.</p>	<p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If knob will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>

Table 1. AIM-7 End to End Test (Continued)


Procedure	Normal Indication	Remedy for Abnormal Indication
<p>b. On Armament Computer CP-1342/AYQ-9(V), set ARMA-MENT, L OUTBD and R OUTBD, and  L INBD and R INBD switches to 84 for station being tested and WING TIP switch to 9.</p> <p>c. If fuel tank is installed, set applicable ARMAMENT switch to 01.</p> <p>d. If empty BRU-32( ), BRU-33( ), or MER bomb rack is installed, open hooks and set applicable ARMA-MENT switches to 00. Set remaining FUZING and ARMAMENT switches to zero.</p> <p>e. On Digital Display Indicator ID-2150/ASM-612 in nose wheel-well, look at WPN SYS FAIL indicator.</p> <p>f. Connect ground intercommunications hookup (A1-F18AC-LMM-000).</p> <p>g. Make sure SNSR pod control box panel assembly RADAR switch is OFF.</p> <p>h. On MC/HYD ISOL control panel assembly, set MC switch to NORM.</p>	<p>WPN SYS FAIL indicator is black (not latched).</p>	<p>If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If a malfunction occurs during this test, make sure circuit breakers shown in WP008 00 are closed.</p>		
<p>i. Apply electrical power (A1-F18AC-LMM-000).</p>		

Table 1. AIM-7 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
j. On GND PWR control panel assembly, set and hold 1 and 2 switches to B ON for 3 seconds.	Switches remain on (latched).	<p>1. If switches unlatch in 10 to 30 seconds, apply external cooling air to aircraft (A1-F18AC-LMM-000).</p> <p>2. If no switches remain on, do GND PWR switching system test (A1-F18AC-420-200, WP006 00).</p> <p>3. If one but not all switches remain on, replace GND PWR control panel assembly (A1-F18AC-420-200, WP023 00).</p>
k. On left and right Digital Display Indicator IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.	<p>1. LDDI and RDDI have displays and center pushbutton switch on bottom row is labeled MENU.</p> <p>2. LDDI has cautions and advisories displayed.</p>	<p>1. No display on LDDI, F/A-18A, do table 1 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 1 (A1-F18AC-745-200, WP007 00).</p> <p>2. No display on RDDI, F/A-18A, do table 2 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 2 (A1-F18AC-745-200, WP007 00).</p> <p>3. If STANDBY is displayed, F/A-18A, do table 2 (A1-F18AC-745-200, WP004 00). F/A-18B, do table 2 (A1-F18AC-745-200, WP005 00).</p> <p>4. If BRT or CONT controls do not affect display, replace left or right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>
l. On RDDI, press MENU pushbutton switch.	Menu display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
m. On RDDI, press BIT pushbutton switch.	BIT control display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).



Table 1. AIM-7 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
n. On LDDI, press MENU pushbutton switch.	Menu display appears on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
o. On LDDI, press STORES pushbutton switch.	Stores display appears on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
p. On master arm control pane assembly, set MASTER switch to ARM.	Wingform displayed on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
q. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.	Switch remains engaged.	Do table 1 (WP012 00).
4. SMS POWER UP BIT.		
<p style="text-align: center;"><b>NOTE</b></p> <p>If Command Launch Computer CP-1001( )/AWG (CLC) is not installed on aircraft, CLC status message display remains NOT RDY. If CLC is not installed, omit steps which refer to CLC status message displays.</p> <p>When troubleshooting, maintenance codes are displayed on Digital Display Indicator (nose wheelwell DDI, leftside) and on cockpit digital display indicator (left or right DDI). For DIGITAL DATA COMPUTER CONFIG/IDENT 15C and UP, read only in the cockpit.</p>		
a. On RDDI, observe SMS and CLC BIT status message displays.	SMS and CLC status message displays are NOT RDY.	Replace Digital Data Computer No. 1 (A1-F18AC-741-300, WP003 00).
b. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds. Observe SMS status message display.	<p>1. Within 20 seconds, SMS BIT status message NOT RDY is removed and SF TEST is displayed.</p> <p>2. Within 240 seconds after SF TEST is displayed, SMS BIT status message <input type="checkbox"/>1 is GO, or <input type="checkbox"/>2 PBIT GO.</p>	<p>1. If SMS remains NOT RDY, do table 1 (WP010 01).</p> <p>2. If SMS does not display SF TEST, replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>1. If SMS display is <input type="checkbox"/>1 NO GO, or <input type="checkbox"/>2 MUX FAIL, replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p>

Table 1. AIM-7 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
5. SMS MAINTENANCE BIT.		2. If SMS display is DEGD, or <input type="checkbox"/> 2 OP GO read maintenance code(s) in nose wheelwell and do table 1 (WP010 00).
		3. If SMS display is <input type="checkbox"/> 1 DEGD OH, or <input type="checkbox"/> 2 DEGD+OVRHT set 3 switch on GND PWR panel to AUTO and do table 2 (WP010 02).
		4. If SMS display is <input type="checkbox"/> 1 OH or <input type="checkbox"/> 2 OVRHT, set 3 switch on GND PWR panel to AUTO and do table 1 (WP010 02).
	3. ARM is displayed on LDDI stores display.	Do table 1 (WP010 17).
	4. 7F Weapon displays are displayed on test display wingform at weapon stations 2, 3, 7 and 8 locations.	1. Stations 2 and 8, do <input type="checkbox"/> 1 table 1 or <input type="checkbox"/> 2 table 1A (WP027 02).
	5. LOAD fault advisory is not displayed on LDDI.	2. Stations 3 and 7, do table 6 (WP027 02).
		Correct load fault.
<p align="center"><b>NOTE</b></p> <p>Maintenance BIT test can be started after SF TEST is complete.</p> <p>Pressing MENU, BIT, or STOP pushbutton switch on RDDI stops BIT.</p>		
a. On RDDI, press MAINT pushbutton switch.	Maintenance BIT control display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).

Table 1. AIM-7 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>During switch test (steps c thru g), GO will appear after all functions of the switch have been completed. If GO does not appear, switch function did not operate correctly.</p>		
b. On RDDI, press SMS pushbutton switch.	<p>1. IN TEST appears for SMS on SMS maintenance BIT control display.</p> <p>2. Within 240 seconds SJET, PCKL, TRIG, and SSP appear above BIT status messages display.</p>	Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).
<p>c. On LH vertical console control panel, set SELECT JETT switch momentarily to positions as listed:</p> <p>L FUS MSL R FUS MSL RACK LCHR STORES SAFE JETT (CENTER PUSH)</p>	GO appears after SJET display.	Do table 2, WP012 00.
d. On aircraft controller grip assembly, press A/G weapon release switch.	Go appears after PCKL display.	Do table 4 (WP012 00).
e. On aircraft controller grip assembly, press and release gun/A/A missile trigger switch.	GO appears after TRIG display.	Do table 4 (WP013 00).
f. On flaps, landing gear and stores indicator panel, press CTR, LI, RI, LO, and RO switches to on.	GO appears after SSP display and switch lights come on.	Do table 2 (WP013 00).
g. On flaps landing gear and stores indicator panel, press CTR, CTR, LI, RI, LO, and RO switches to off.	CTR, LI, RI, LO, and RO switch lights go off.	Replace Flaps, Landing Gear and Stores Indicator Panel, (A1-F18AC-740-300, WP014 00).

Table 1. AIM-7 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
6. END TO END TEST.		
<p style="text-align: center;"><b>NOTE</b></p> <p>During this test, if Normal Indication display is wrong and remedy refers to a table, do not shut down system or remove test adapter. Do applicable troubleshooting table.</p> <p>When more than one weapon station has a AIM-7 test adapter installed, testing will start with station 2. Stations with AIM-7 test adapter will be tested in this sequence, station 2, 3, 4, 6, 7, and 8.</p> <p>With LOAD fault caution or MASTER switch set to SAFE, test will not start.</p>		
a. On right throttle grip, press release cage/uncage switch.	<p>1. Station 2, 3, 7 or 8, 7F weapon display is removed and TST is displayed for station 2, 4, 6 or 8.</p> <p>2. Maintenance BIT switches SJET, PCKL, TRIG, and SSP are removed at start of test and appear at end of test.</p> <p>3. Within 30 seconds, STBY appears under TST (test in progress).</p>	<p>1. Station 2, do table <input type="checkbox"/> 1 2 or <input type="checkbox"/> 2 2A (WP027 02).</p> <p>2. Station 3, do table 7 (WP027 02).</p> <p>3. Station 4, do table 3 (WP027 02).</p> <p>4. Station 6, do table 4 (WP027 02).</p> <p>5. Station 7, do table 8 (WP027 02).</p> <p>6. Station 8, do table <input type="checkbox"/> 1 5 or <input type="checkbox"/> 2 5A (WP027 02).</p> <p>Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p>

Table 1. AIM-7 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>b. When AIM-7 test adapter is to be moved to another station for testing, do substeps below:</p> <p>(1) Do SHUTDOWN, steps 7a through 7c.</p> <p>(2) Do applicable TEST EQUIPMENT HOOKUP, step 2.</p> <p>(3) Repeat test starting with substep 3j.</p> <p>7. SHUTDOWN.</p> <p>a. On master arm control pane assembly, set MASTER switch to SAFE</p>	<p>4. Within 60 seconds, RDY appears under TST (test completed).</p>	<p>1. Display remains STBY, replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>2. Display is FAIL,</p> <p>a. Station 2, do table 1 (WP027 03).</p> <p>b. Station 3, do table 5 (WP027 03).</p> <p>c. Station 4, do table 1 (WP027 05).</p> <p>d. Station 6, do table 1 (WP027 06).</p> <p>e. Station 7, do table 5 (WP027 04).</p> <p>f. Station 8, do table 1 (WP027 04).</p>
	<p>1. SAFE displayed on LDDI.</p> <p>2. ARMAMENT OVERRIDE switch disengages.</p>	<p>Do table 2 (WP010 17).</p> <p>Do table 3 (WP010 17).</p>

Table 1. AIM-7 End to End Test (Continued)

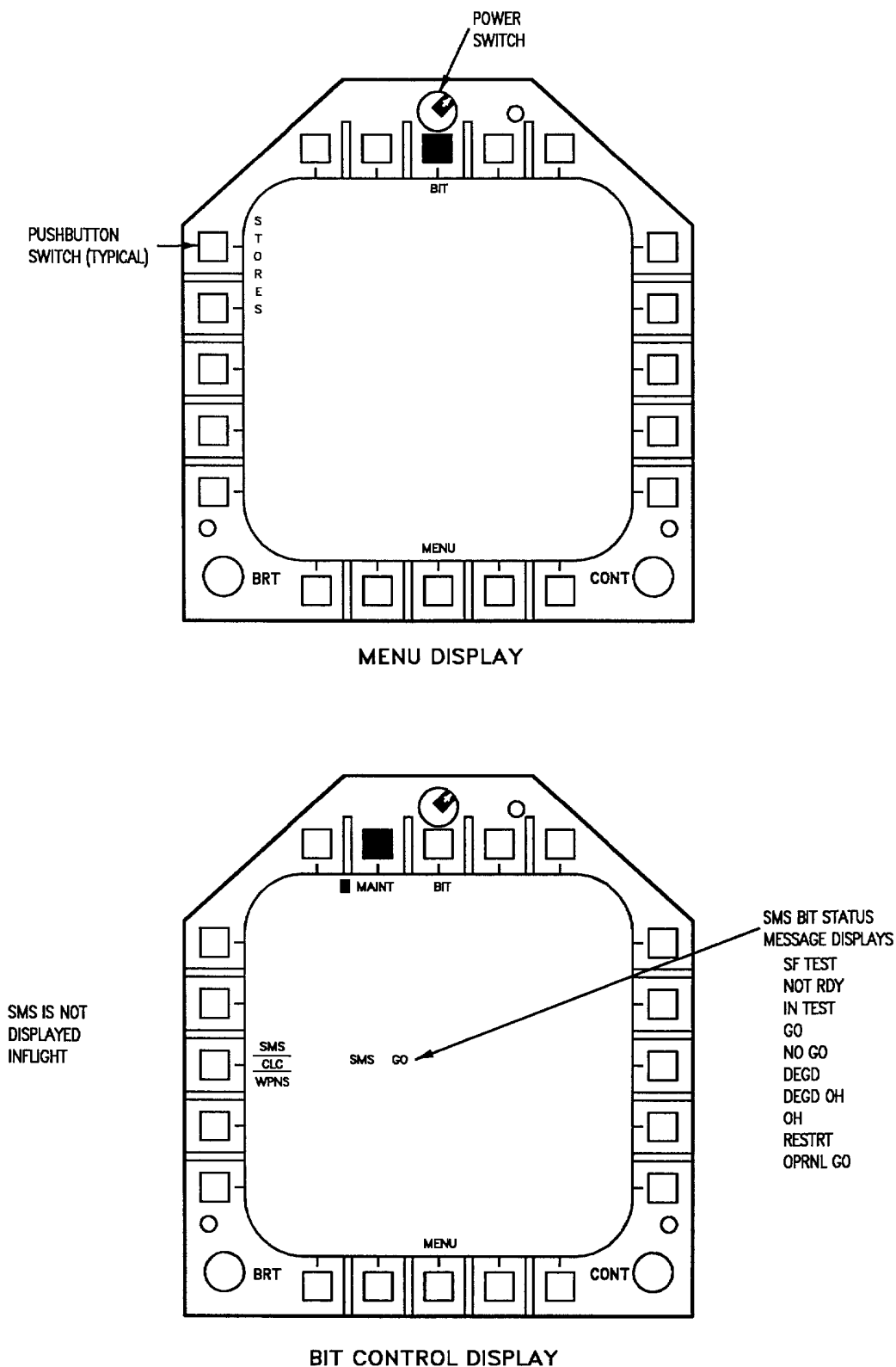
Procedure	Normal Indication	Remedy for Abnormal Indication
<p>b. On LDDI and RDDI, set power switch to OFF.</p> <p>c. On GND PWR control panel assembly, set 3, 2 and 1 switches to AUTO.</p> <p>d. Remove electrical power (A1-F18AC-LMM-000).</p> <p>e. Disconnect ground intercommunication hookup (A1-F18AC-LMM-000).</p> <p>f. Close door 14R (A1-F18AC-LMM-010).</p> <p>g. On Outboard Wing Pylon SUU-63( ), do substeps listed below:</p> <p>(1) Remove launcher by-pass adapter and AIM-7 test adapter from LAU-115C/A jumper cable.</p> <p>(2) Disconnect AIM-7 test adapter from launcher by-pass adapter and stow in container.</p> <p>(3) Remove LAU-115C/A jumper cable from pylon.</p> <p>(4) Close door 502 on pylon (A1-F18AC-LMM-010).</p> <p>h. On Aircraft Guided Missile Launcher LAU-115C/A or LAU-116( ), do substeps listed below:</p> <p>(1) Remove AIM-7 test adapter and electrical connector (wafer) from umbilical connector and install umbilical cover.</p>		

Table 1. AIM-7 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>(2) Remove AIM-7 motor fire cable from launcher motor fire connector and remove motor fire cable from launcher.</p> <p>(3) Disconnect cables from AIM-7 test adapter and breech test adapters and stow in container.</p> <p>(4) Remove breech test adapters from Aircraft Guided Missile Launcher LAU-116( ).</p> <p>(5) Install chamber assemblies in Aircraft Guided Missile Launcher LAU-116( ).</p>		
<b>LEGEND</b>  1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

## 1. ILLUSTRATED PARTS BREAKDOWN.

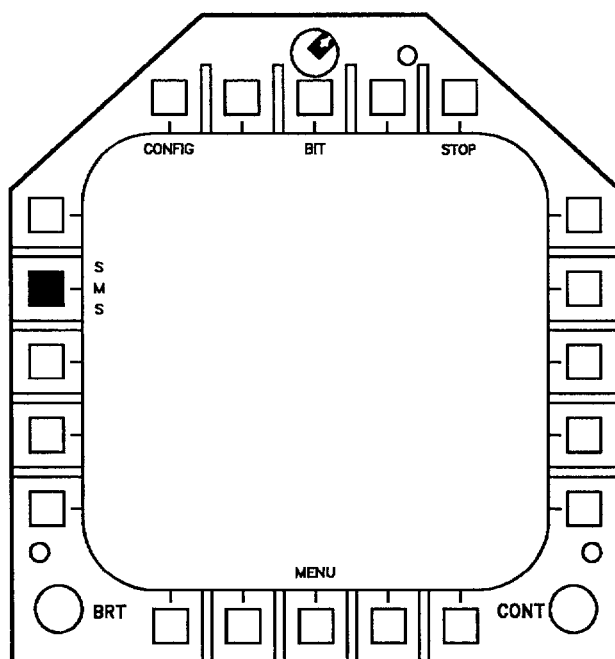
2. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data. (Figure 3)



F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.

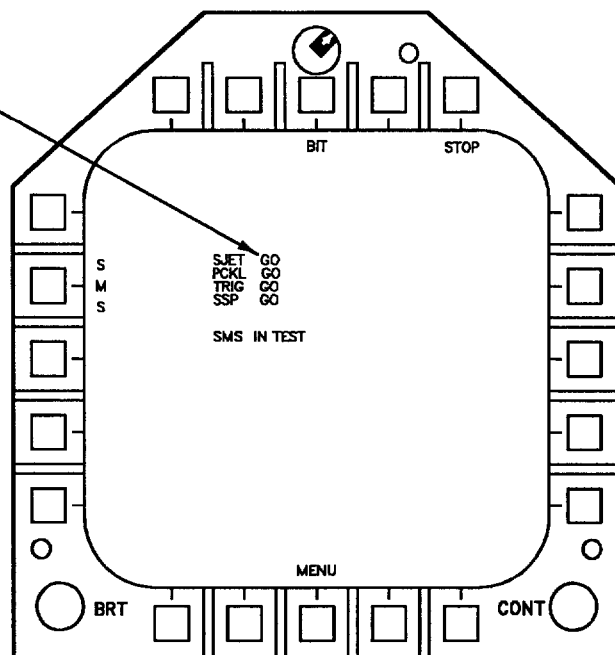
**Figure 1. AIM-7 End to End Maintenance BIT Displays (Sheet 1)**





MAINTENANCE BIT CONTROL DISPLAY

SWITCH DISPLAYS APPEAR  
AFTER INITIATED BIT IS  
COMPLETED  
GO APPEARS AFTER ALL  
FUNCTIONS OF THE  
SWITCH ARE COMPLETED

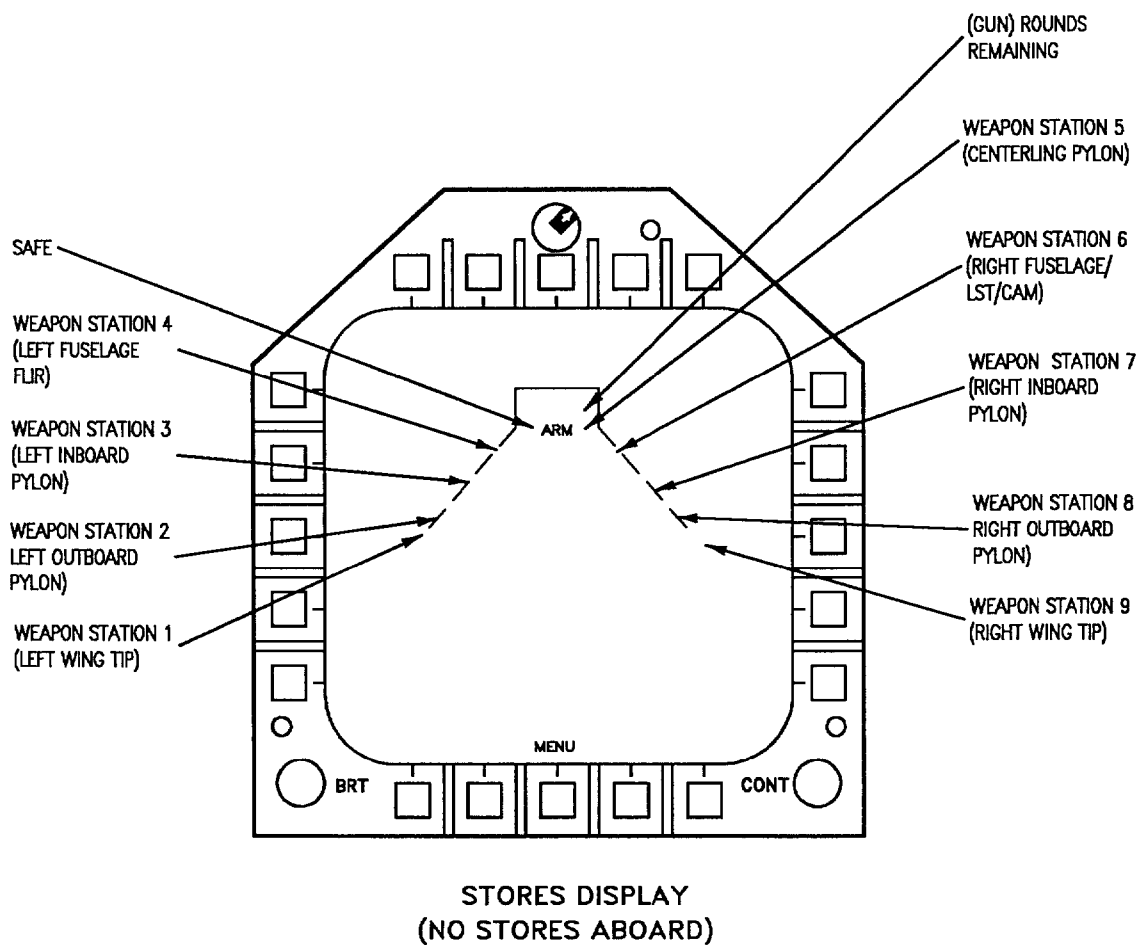


MAINTENANCE BIT CONTROL DISPLAY-SMS SELECTED

F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.

27010102

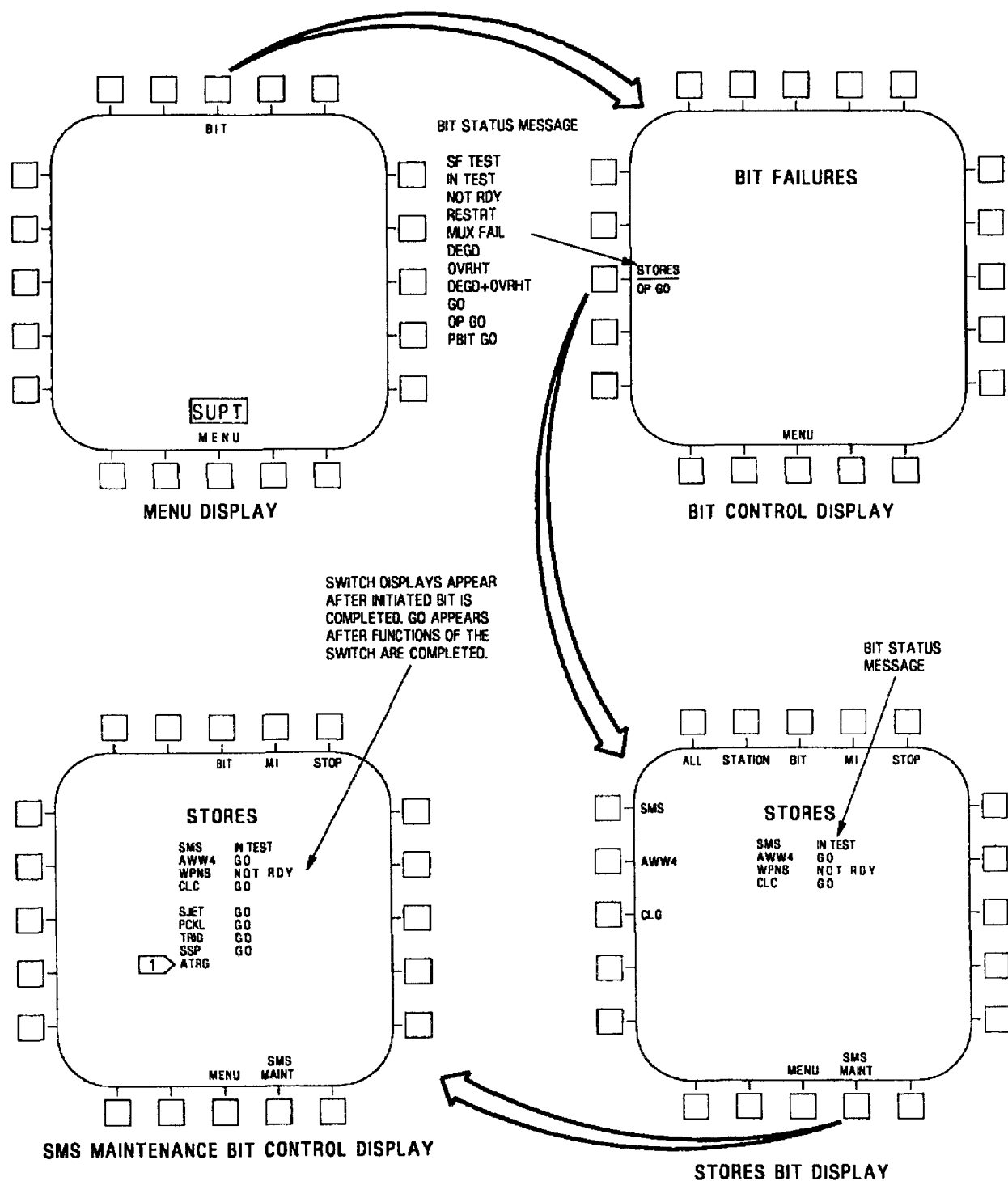
Figure 1. AIM-7 End to End Maintenance BIT Displays (Sheet 2)



F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.

27010103

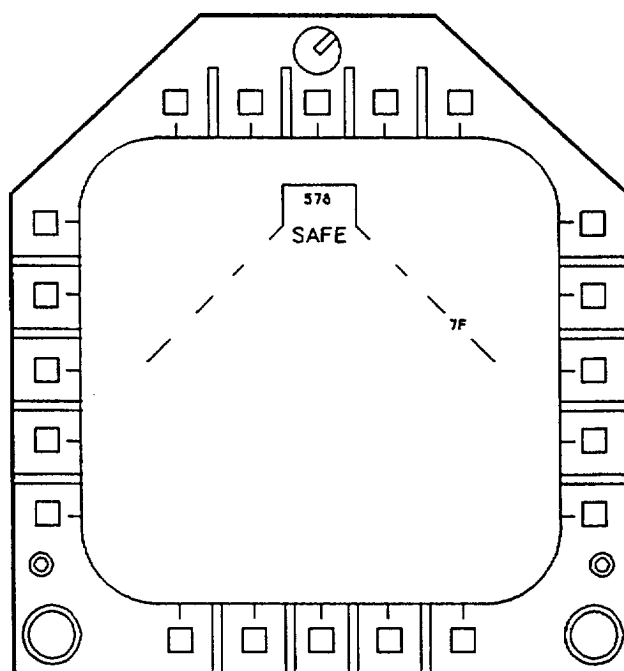
**Figure 1. AIM-7 End to End Maintenance BIT Displays (Sheet 3)**



F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292

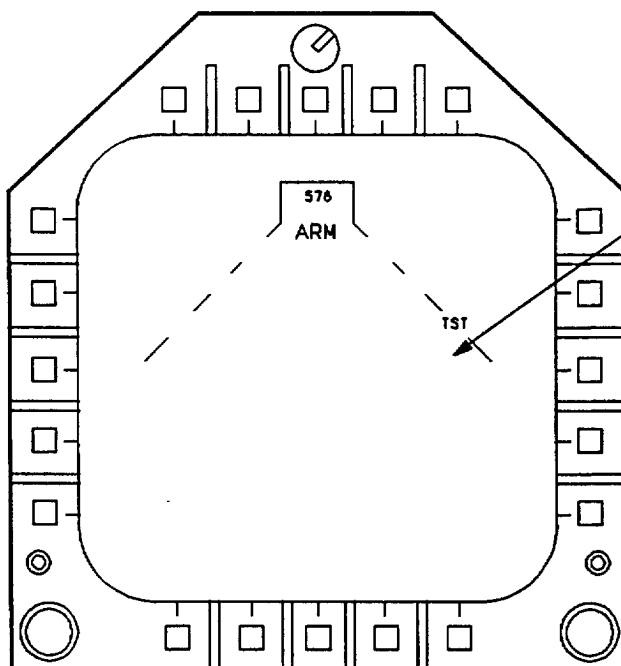
27010104

Figure 1. AIM-7 End to End Maintenance BIT Displays (Sheet 4)



TEST DISPLAY

MASTER ARM AT SAFE  
ARMAMENT CODE SELECTED 84  
L OR R OUTBD AND 9 WING TIP.



END TO END  
STATUS MESSAGE  
DISPLAY  
STBY  
ROY  
FAIL

TEST DISPLAY

MASTER ARM AT ARM  
CAGE/UNCAGE ACTUATED

Figure 2. End to End Test Display

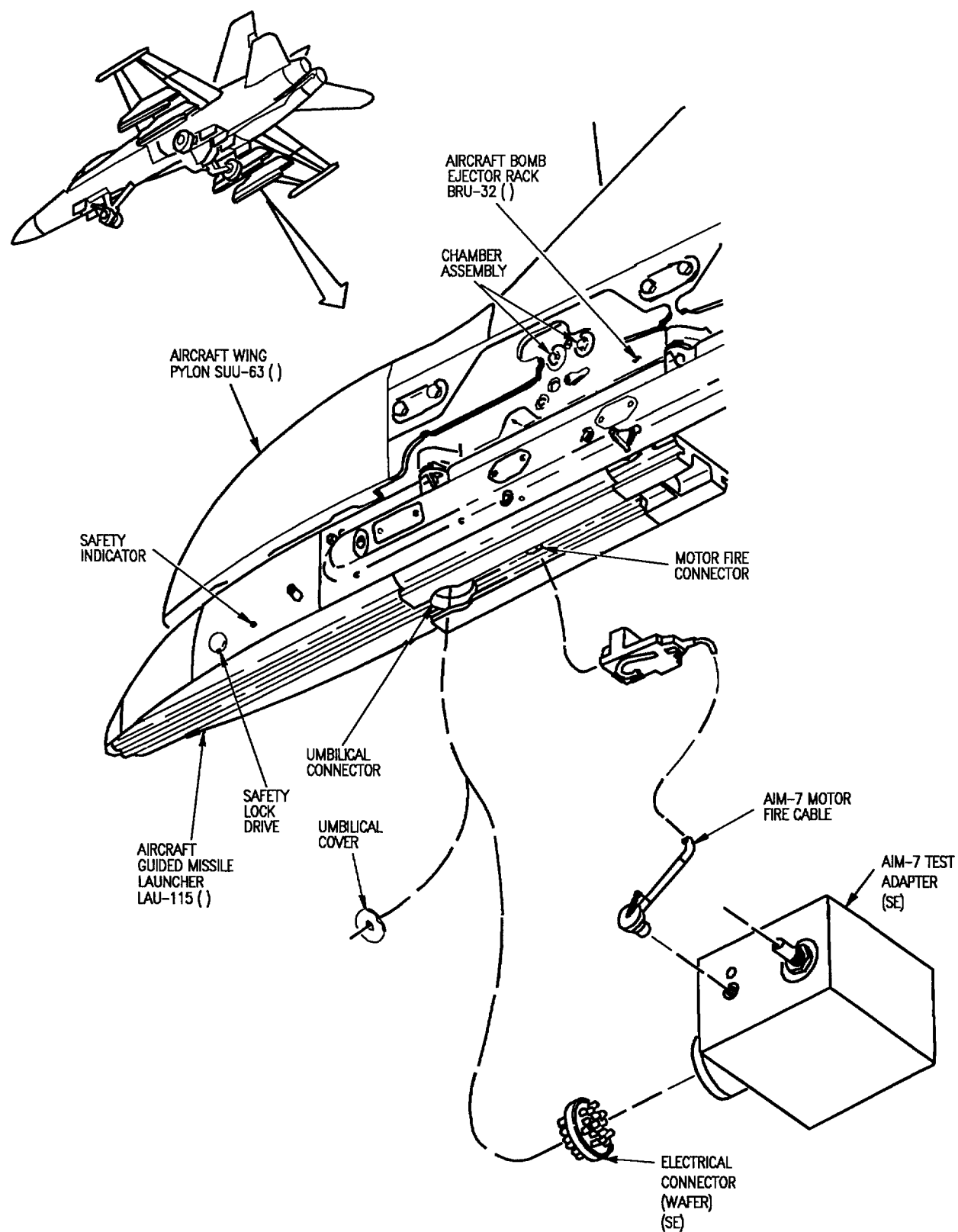
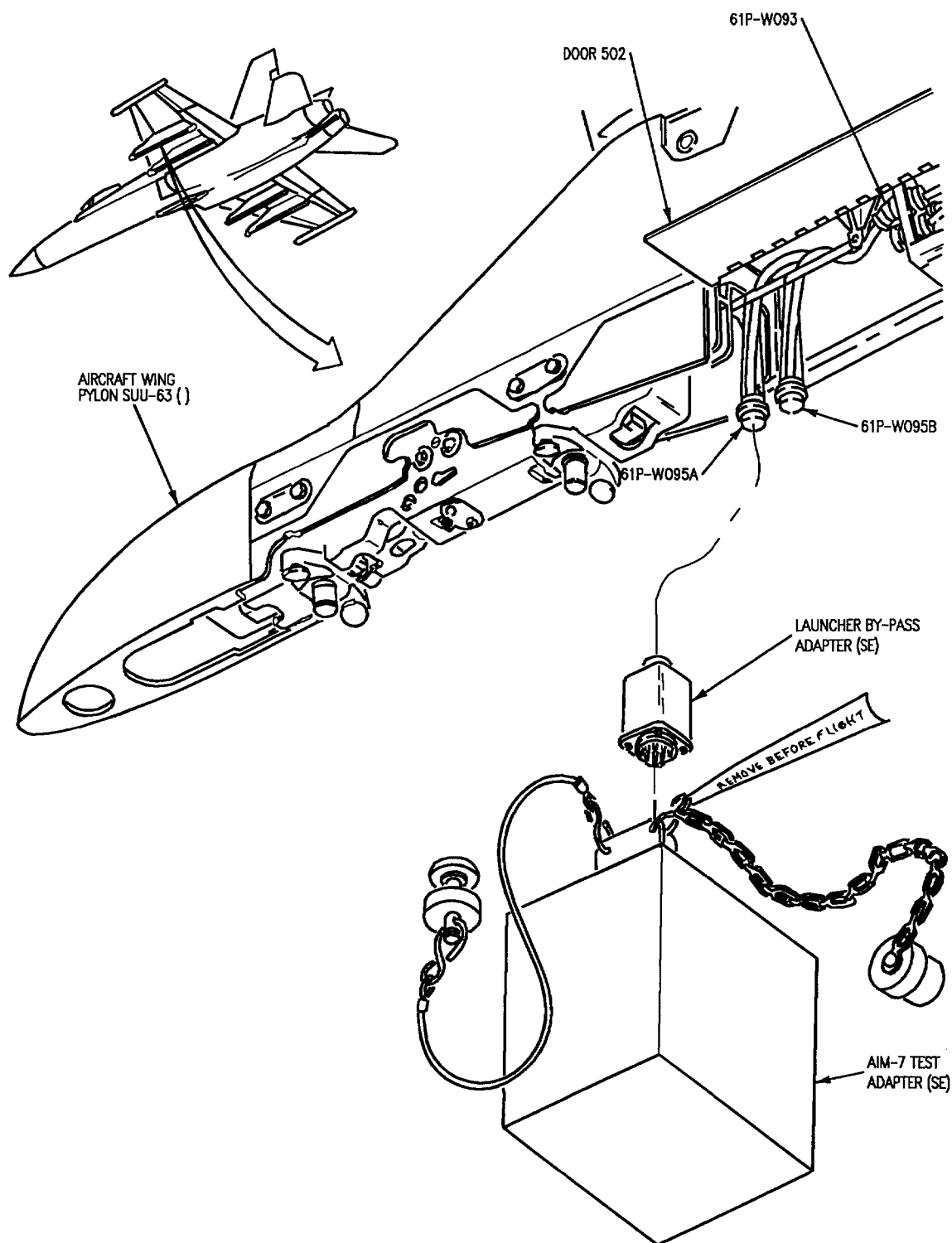


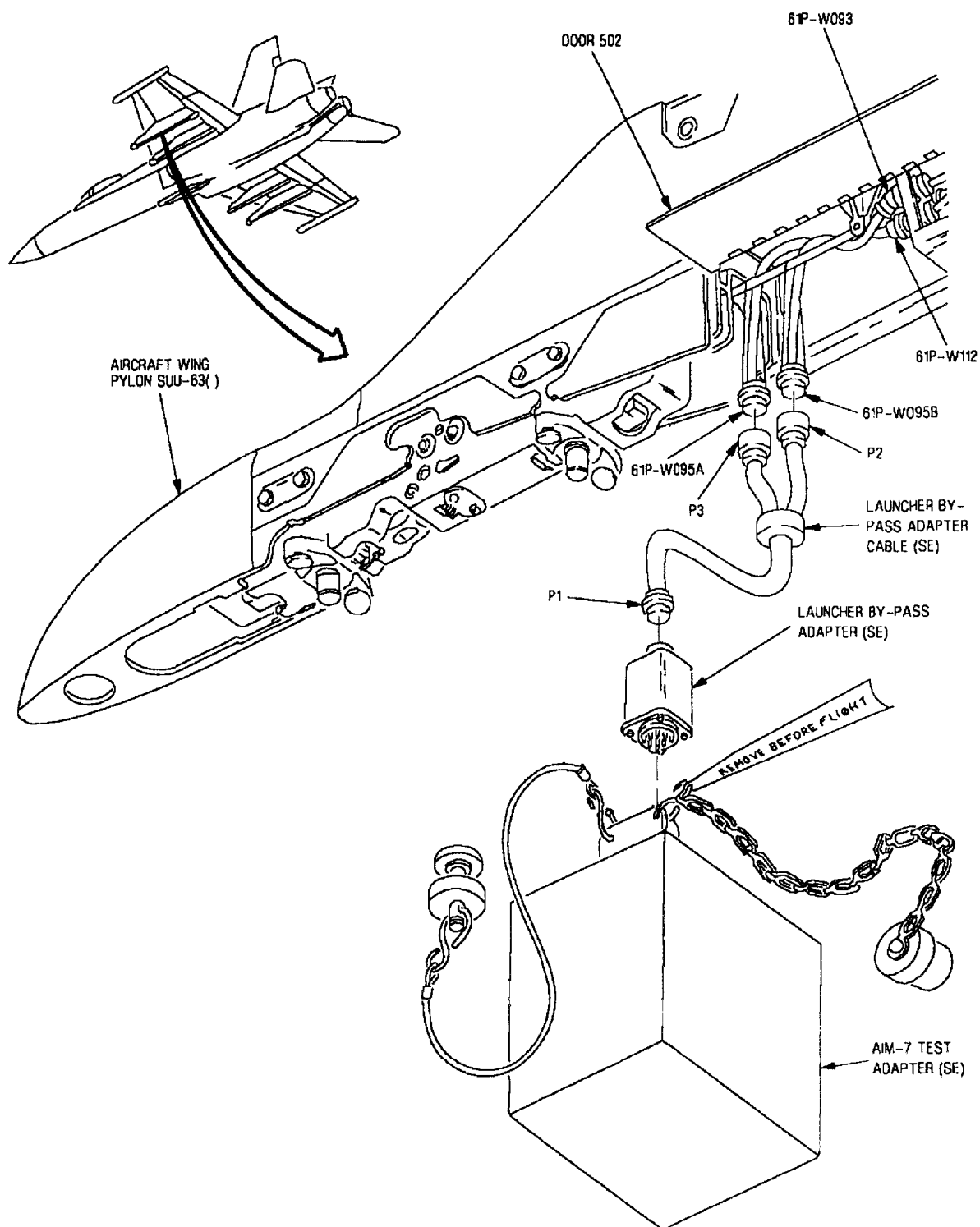
Figure 3. Test Equipment Hookup (Sheet 1)



F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.

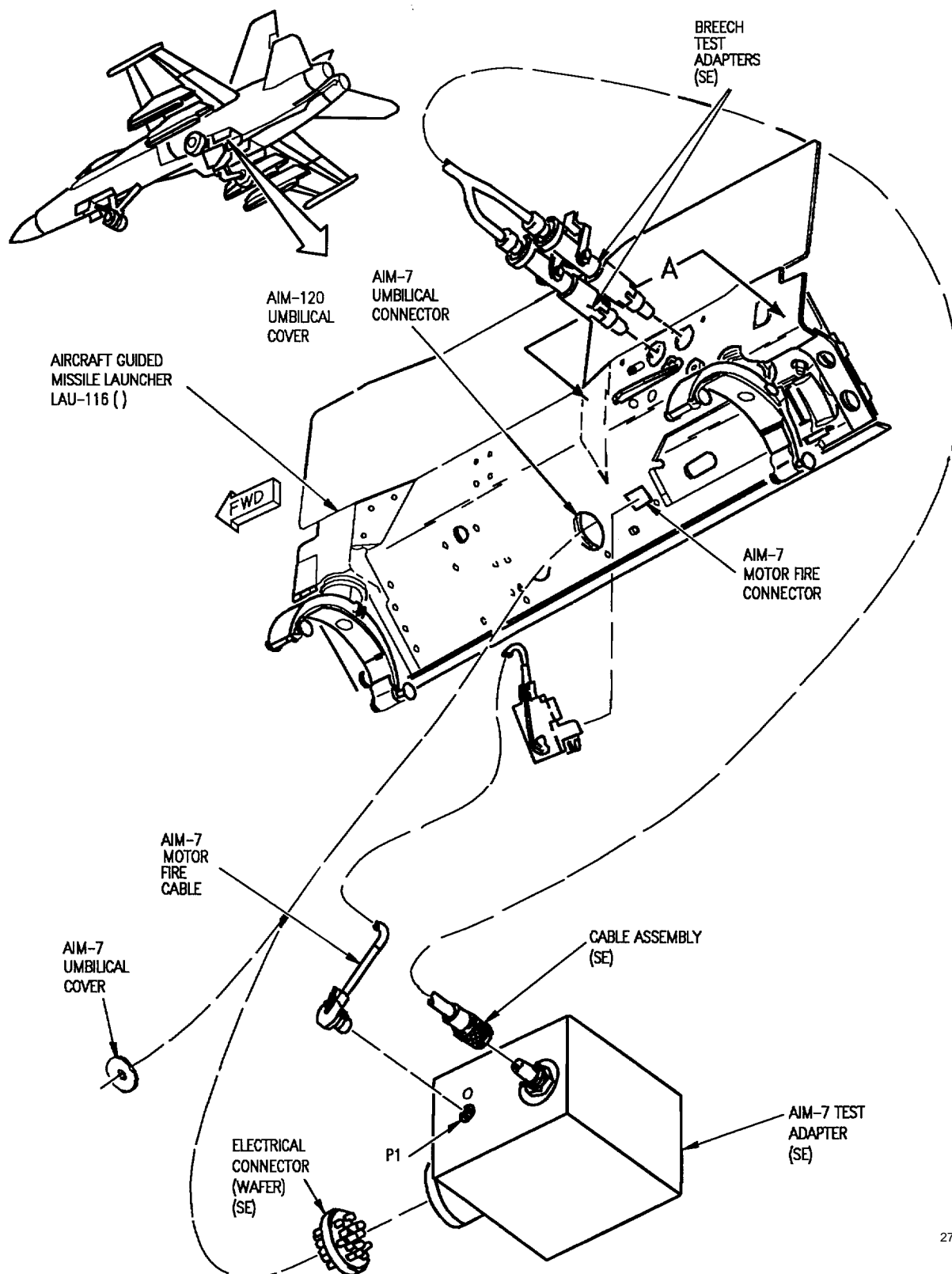
27010302

**Figure 3. Test Equipment Hookup (Sheet 2)**



F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.

**Figure 3. Test Equipment Hookup (Sheet 3)**



27010304

Figure 3. Test Equipment Hookup (Sheet 4)



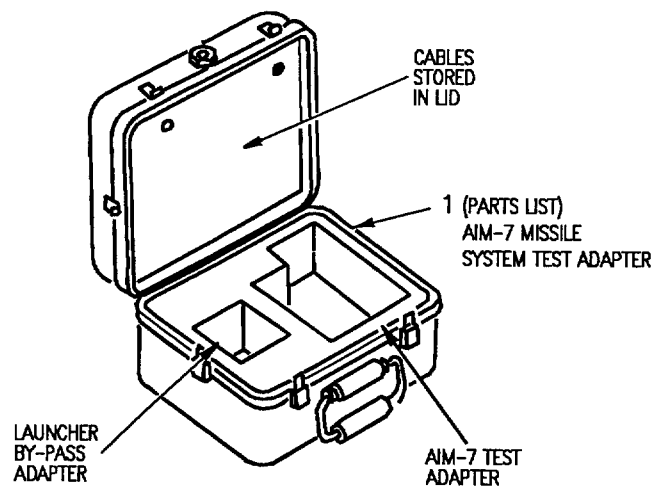
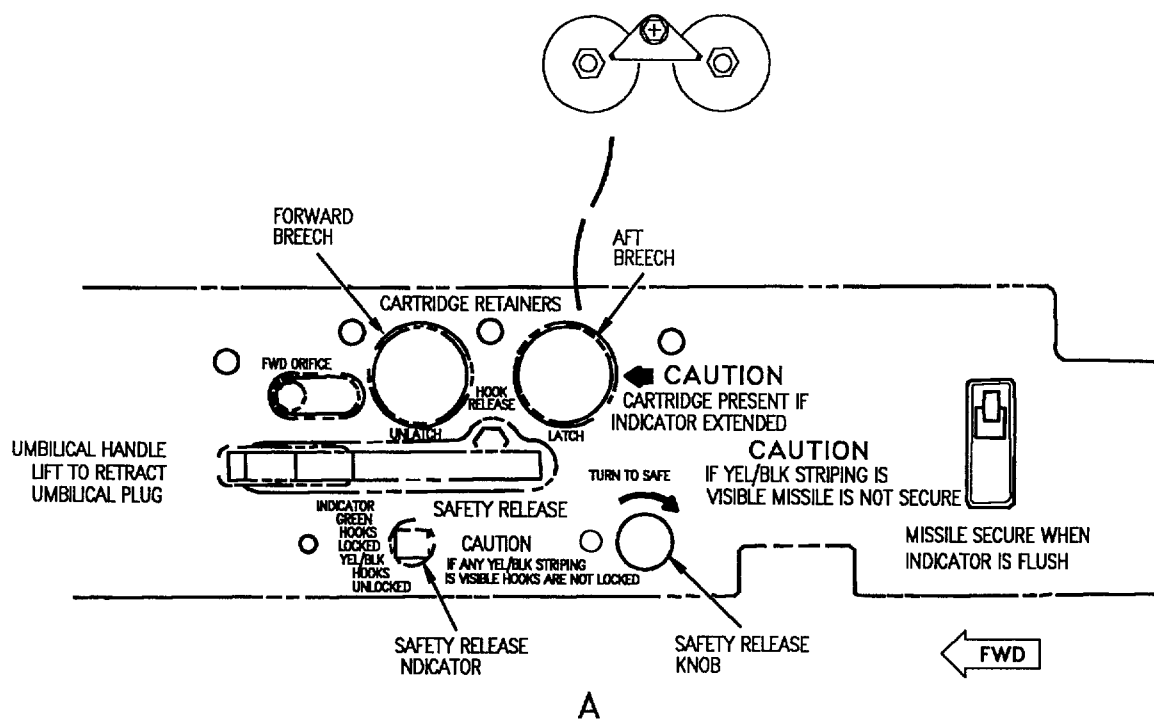


Figure 3. Test Equipment Hookup (Sheet 5)

INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USABLE ON CODE	SM&R CODE
1	74D750050-1003	TEST EQUIPMENT HOOKUP ..... . ADAPTER, TEST - AIM-7 ..... MISSILE SYSTEM (76301) (SUPPORT EQUIPMENT)	1		PEOGD
	74D750050-1001	. ADAPTER, TEST - AIM-7 ..... MISSILE SYSTEM (76301) (SUPPORT EQUIPMENT)	1		PEOGD

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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**TROUBLESHOOTING - 7F/TST NOT DISPLAYED ON LDDI**  
**SUSPENSION AND RELEASE MECHANISMS**

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**Reference Material**

Weapon Control Systems ..... A1-F18AC-740-200  
Memory Inspect Data ..... WP010 19

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**Record of Applicable Technical Directives**

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**1. INTRODUCTION.**

2. The troubleshooting tables in this work package provide fault isolation when 7F or TST is not displayed on the LDDI during AIM-7 end to end test.

3. Table 1 isolates station 2 or 8 7F display fail.  
Table 6 isolates station 3 or 7 7F display fail.

4. Tables 2, 3, 4, 5, 7 and 8 provide troubleshooting when TST is not displayed for stations 2, 3, 4, 6, 7 or 8.

**Table 1. 7F Not Displayed on LDDI Station 2 or 8 -  
F/A-18A BEFORE F/A-18 AFC-253 OR F/A-18 AFC 292 AND F/A-18B**

<p style="text-align: center;"><b>System Required Components</b></p> <p style="text-align: center;">All system components installed.</p> <p style="text-align: center;"><b>Related Systems Required</b></p> <p style="text-align: center;">Avionics Cooling System Electrical System Mission Computer System Multipurpose Display Group</p> <p style="text-align: center;"><b>Support Equipment Required</b></p> <p style="text-align: center;">None</p> <p style="text-align: center;"><b>Materials Required</b></p> <p style="text-align: center;">None</p> <p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP045 00) may be used as an aid when doing this procedure.</p> <p style="text-align: center;">Component locations are shown in WP007 00.</p> <p style="text-align: center;">Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="text-align: center;">Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2</p>		
Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) Open door 14R (A1-F18AC-LMM-010).</p> <p>(2) On Armament Computer CP-1342/AYQ-9(V), make sure L OUTBD and R OUTBD ARMAMENT switches are set to 84 and WING TIP switch is set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero except stations with fuel tanks loaded. If fuel tanks are installed set applicable ARMAMENT switch to 01.</p> <p>(3) Apply electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p>		

**Table 1. 7F Not Displayed on LDDI Station 2 or 8 -  
F/A-18A BEFORE F/A-18 AFC-253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(5) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switches to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best display.		
(6) On master arm control panel assembly, make sure MASTER switch is set to ARM.		
(7) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(8) On LDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
(9) Is 7F displayed on station 2 LDDI wingform? .....	b	e
b. Do substeps below:		
(1) Using unit address 06, memory inspect address for ref code MSG4 WD4 (table 2, WP010 19).		
(2) Is DATA readout display X52XXX? .....	d	c
c. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step f .....	-	-
d. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step f .....	-	-
e. Do substeps below:		
(1) Using unit address 06, memory inspect address for ref code MSG4 WD16 (table 2, WP010 19).		
(2) Is DATA readout display X52XXX? .....	d	c
f. If disconnected, removed, or opened during this procedure, make sure item listed below are connected, installed or closed:		
(1) Door 14R .....	-	-

**Table 1A. 7F Not Displayed on LDDI Station 2 or 8 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

**System Required Components**

All system components installed.

**Related Systems Required**

Avionics Cooling System  
Electrical System  
Mission Computer System  
Multipurpose Display Group

**Support Equipment Required**

None

**Materials Required**

None

**NOTE**

AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP045 00) may be used as an aid when doing this procedure.

Component locations are shown in WP007 00.

Memory inspect data used in this procedure is provided in WP010 19.

Malfunction is caused by one of the items listed below:

Armament Computer CP-1342/AYQ-9(V)  
Digital Data Computer No. 2

Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) Open door 14R (A1-F18AC-LMM-010).</p> <p>(2) On Armament Computer CP-1342/AYQ-9(V), make sure L OUTBD and R OUTBD ARMAMENT switches are set to 84 and WING TIP switch is set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero except stations with fuel tanks loaded. Set ARMAMENT switches for stations with fuel tanks to 01.</p> <p>(3) Do Memory Inspect Procedure (WP010 19) and enter unit address 6.</p> <p>(4) On master arm control panel assembly, make sure MASTER switch is set to ARM.</p> <p>(5) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.</p>		

**Table 1A. 7F Not Displayed on LDDI Station 2 or 8 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(6) On LDDI:</p> <p>(a) Press and release MENU pushbutton until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(7) Is 7F displayed on station 2 LDDI wingform? . . . . .</p> <p>b. Do substeps below:</p> <p>(1) Using unit address 6, memory inspect address for ref code MSG 4 WD4 (table 2, WP010 19).</p> <p align="center"><b>NOTE</b></p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p> <p>(2) On RDDI, does DATA readout display 102(0 - 3)XX? . . . . .</p> <p>c. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00). Do step f . . . . .</p> <p>d. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step f . . . . .</p> <p>e. Do substeps below:</p> <p>(1) Using unit address 6, memory inspect address for ref code MSG 4 WD16 (table 2, WP010 19).</p> <p align="center"><b>NOTE</b></p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p> <p>(2) On RDDI, does DATA readout display 102(0 - 3)XX? . . . . .</p> <p>f. If disconnected, removed or opened during this procedure, make sure item listed below are connected, installed or closed:</p> <p>(1) Door 14R . . . . .</p>	<p>b</p> <p>d</p> <p>-</p> <p>-</p> <p>-</p> <p>d</p> <p>-</p>	<p>e</p> <p>c</p> <p>-</p> <p>-</p> <p>-</p> <p>c</p> <p>-</p>

**Table 2. TST Not Displayed on LDDI Station 2 -  
F/A-18A BEFORE F/A-18 AFC-253 OR F/A-18 AFC 292 AND F/A-18B**

**System Required Components**

All system components installed.

**Related Systems Required**

Avionics Cooling System  
Electrical System  
Mission Computer System  
Multipurpose Display Group

**Support Equipment Required**

**Part Number or  
Type Designation**

**Nomenclature**

77/BN

Multimeter

**Materials Required**

None

**NOTE**

Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.

Component locations are shown in WP007 00.


Memory inspect data used in this procedure is provided in WP010 19.

Malfunction is caused by one of the items listed below:

Aircraft Guided Missile Launcher LAU-115C/A  
Aircraft Wing Pylon SUU-63( )  
Aircraft Wiring  
Armament Computer CP-1342/AYQ-9(V)  
Digital Data Computer No. 2  
LAU-115 Jumper Cable W56235  
Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  
Right Throttle Grip



**Table 2. TST Not Displayed on LDDI Station 2 -  
F/A-18A BEFORE F/A-18 AFC-253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
 <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX1 scale.</p> <p align="center"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is AIM-7 test adapter connected to station 2? .....	b	c
b. Do substeps below:		
(1) Install AIM-7 test adapter on station 2. Do steps 1, 2 and 3 of AIM-7 End to End Test, WP027 01.		
(2) Do step c .....	-	-
c. Do substeps below:		
(1) Do steps 3, 4 and 5 of AIM-7 End to End Test, WP027 01.		
(2) On right throttle grip, press and release cage/uncage switch.		
(3) Is AIM-7 missile symbol and 7F removed from station 2 LDDI wingform and TST displayed? .....	d	u
d. Was AIM-7 end to end test done on Aircraft Guided Missile Launcher LAU-115C/A? .....	h	e
e. Was AIM-7 end to end test done on Aircraft Wing Pylon SUU-63( ) before testing LAU-115? ...	g	f
f. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step w .....	-	-

**Table 2. TST Not Displayed on LDDI Station 2 -  
F/A-18A BEFORE F/A-18 AFC-253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
g. Do substeps below:		
(1) Install AIM-7 test adapter using Test Equipment Hookup for Outboard Wing Pylon SUU-63( ), AIM-7 End to End Test, step 2b, WP027 01.		
(2) Do SMS Maintenance BIT, AIM-7 End to End Test, step 5, WP027 01.		
(3) On right throttle grip, press and release cage/uncage switch.		
(4) Is AIM-7 missile symbol and 7F removed from station 2 LDDI wing form and TST displayed? .....	h	f
h. Do substeps below:		
(1) Using unit address 06, memory inspect address for ref code MSG4 WD4 (table 2, WP010 19).		
(2) Is DATA readout display X51XXX?. .....	j	i
i. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step w .....	-	-
j. Do substeps below:		
(1) Using unit address 06, memory inspect address for ref code INPNMO+4/BIT 4 (table 2, WP010 19).		
(2) On right throttle grip, press and hold cage/uncage switch.		
(3) Record data readout and release cage/uncage switch.		
(4) Is DATA readout display XX4XXX? .....	k	p
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(3) Press and hold cage/uncage switch.		
(4) Does continuity exist from 61P-F001B pin 119 to aircraft ground? .....	l	m
l. Do substeps listed below:		
(1) Open internal door CPP (A1-F18AC-LMM-010).		
(2) Disconnect P1 from 52J-H048 on right throttle quadrant support.		

**Table 2. TST Not Displayed on LDDI Station 2 -  
F/A-18A BEFORE F/A-18 AFC-253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(3) Does continuity exist from:  61P-F001B pin 119 to 52J-H048 pin 36 aircraft ground to 52J-H048 pin 37? .....	n	o
m. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step w .....	-	-
n. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step w .....	-	-
o. Replace right throttle grip (A1-F18AC-270-300, WP088 00) and do step w .....	-	-
p. Do substeps below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Disconnect AIM-7 launcher by-pass adapter from 61P-W095A.  (3) Install a jumper wire between 61P-W095A pin v and aircraft ground.  (4) Turn on electrical power (A1-F18AC-LMM-000).  (5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.  (6) Does 115vac exist between:  61P-W095A pin LL and aircraft ground 61P-W095A pin CC and aircraft ground? .....	q	r
q. Do table 1, WP027 19, Sparrow Weapon Station 2. 115vac Power Control Fail and do step w .....	-	-
r. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Open door 504 (A1-F18AC-LMM-010).  (3) In door 504, disconnect 61P-W012D from J4 on encoder-decoder.  (4) Does continuity exist between:  61P-W095A pin D and 61P-W012D pin HH 61P-W095A pin G and 61P-W012D pin W 61P-W095A pin JJ and 61P-W012D pin FF? .....	s	v

**Table 2. TST Not Displayed on LDDI Station 2 -  
F/A-18A BEFORE F/A-18 AFC-253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>s. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable W56235 does continuity exist between:</p> <p>61P-W095A pin D and 61P-W093 pin 2  61P-W095A pin G and 61P-W093 pin 6  61P-W095A pin JJ and 61P-W093 pin 38? . . . . .</p>	t	u
t. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step w . . . . .	-	-
u. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step w . . . . .	-	-
<p>v. Malfunction is caused by one of the items listed below:</p> <p>(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>(2) Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  (A1-F18AC-740-300, WP009 00).</p> <p>Do step w . . . . .</p>	-	-
<p>w. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 52J-H048</p> <p>(2) 61P-F001B</p> <p>(3) 61P-W012D</p> <p>(4) 61P-W093</p> <p>(5) Doors 14R, 504, CPP</p> <p>(6) Jumper Wire (61P-W095A) . . . . .</p>	-	-

**Table 2A. TST Not Displayed on LDDI Station 2 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

**System Required Components**

All system components installers.

**Related Systems Required**

Avionics Cooling System  
Electrical System  
Mission Computer System  
Multipurpose Display Group

**Support Equipment Required**

**Part Number or  
Type Designation**

**Nomenclature**

77/BN

Multimeter

**Materials Required**

None

**NOTE**

Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) and Weapon Station 2, 3, 7, 8, AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as aids when doing this procedure.

Component locations are shown in WP007 00.

Memory inspect data used in this procedure is provided in WP010 19.

Malfunction is caused by one of the items listed below:

Aircraft Guided Missile Launcher LAU-115C/A  
Aircraft Wing Pylon SUU-63( )  
Aircraft Wiring  
Armament Computer CP-1342/AYQ-9(V)  
Digital Data Computer No. 2  
LAU-115 Jumper Cable W56235  
Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  
Right Throttle Grip

**Table 2A. TST Not Displayed on LDDI Station 2 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Is AIM-7 test adapter connected to station 2? .....	b	c
b. Do substeps below:		
(1) Install AIM-7 test adapter on station 2.		
(2) Do steps 1, 2 and 3 of AIM-7 End to End Test, WP027 01.		
(3) Do step c .....	-	-
c. Do substeps below:		
(1) Open door 14R (A1-F18AC-LMM-010).		
(2) On Armament Computer CP-1342/AYQ-9(V), make sure L OUTBD and R OUTBD ARMAMENT switches are set to 84 and WINGTIP switch is set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero, except for stations with fuel tanks installed. On stations with fuel tanks, set ARMAMENT switches to 01.		
(3) Do Memory Inspect Preliminary Steps (WP010 19) and enter unit address 6.		
(4) On master arm control panel assembly, make sure Master switch is set to ARM.		
(5) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(6) On LDDI:		
(a) Press and release MENU pushbutton until STORES option is displayed.		
(b) Press STORES pushbutton switch.		
(7) Do SMS Maintenance BIT AIM-7 End to End Test, step 5, WP027 01.		
(8) On right throttle grip, press and release cage/uncage switch.		

**Table 2A. TST Not Displayed on LDDI Station 2 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(9) Is AIM-7 missile symbol and 7F removed from station 2 LDDI wingform and TST displayed? .....</p> <p>d. Do substeps below:</p> <p>(1) Using unit address 6, memory inspect address for ref code MSG4 WD4 (table 2, WP010 19).</p>	d	w
<p><b>NOTE</b></p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
<p>(2) Is DATA readout display 102(0 - 3)XX? .....</p>	f	e
<p>e. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00). Do step w .....</p>	-	-
<p>f. Do substeps below:</p> <p>(1) Using unit address 6, memory inspect address for ref code INPMNO+6 (table 2, WP010 19).</p> <p>(2) On right throttle grip, press and hold cage/uncage switch.</p> <p>(3) Record data readout and release cage/uncage switch.</p>		
<p>(4) Is DATA readout display X1XXXX? .....</p>	g	l
<p>g. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(3) Press and hold cage/uncage switch.</p>		
<p>(4) Does continuity exist between 61P-F001B pin 119 and aircraft ground? .....</p>	h	i
<p>h. Do substeps listed below:</p> <p>(1) Open internal door CPP (A1-F18AC-LMM-010).</p> <p>(2) Disconnect P1 from 52J-H048 on right throttle quadrant support.</p>		

**Table 2A. TST Not Displayed on LDDI Station 2 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(3) Does continuity exist between:  61P-F001B pin 119 and 52J-H048 pin 36 aircraft ground and 52J-H048 pin 37? .....	j	k
i. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step w .....	-	-
j. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step w .....	-	-
k. Replace right throttle grip (A1-F18AC-270-300, WP088 00). Do step w .....	-	-
l. Do substeps below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Disconnect AIM-7 test adapter from LAU-115.  (3) Install a jumper wire between 61P-W214C pin a and aircraft ground.  (4) Turn on electrical power (A1-F18AC-LMM-000).  (5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.  (6) Does 115vac exist from 61P-W214C pin j to aircraft ground? .....	m	p
m. Do substeps below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Open door 502 (A1-F18AC-LMM-010).  (3) Disconnect 61P-W095A from 61J-W095A.  (4) Disconnect 61P-W095B from 61J-W095B.  (5) Install a jumper wire between 61P-W095A pin v and aircraft ground.  (6) Turn on electrical power (A1-F18AC-LMM-000).  (7) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.  (8) Does 115vac exist from 61P-W095B pin DD to aircraft ground? .....	n	o



**Table 2A. TST Not Displayed on LDDI Station 2 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
n. Do table 1A WP027 19, Sparrow Weapon Station 2, 115vac Power Control Fail. Do step w . . . . .	-	-
o. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step w . . . . .	-	-
p. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 (A1-F18AC-LMM-000).		
(3) Disconnect 61P-W093 from 61J-W093.		
(4) Does continuity exist between:		
61P-W093 pin 2 and 61P-W214C pin d		
61P-W093 pin 6 and 61P-W214C pin D		
61P-W093 pin 38 and 61P-W214C pin f? . . . . .	q	t
q. Do substeps below:		
(1) Disconnect 61P-W095A from 61J-W095A.		
(2) Disconnect 61P-W095B from 61J-W095B.		
(3) On LAU-115 jumper cable W56235, does continuity exist between:		
61P-W093 pin 2 and 61P-W095A pin D		
61P-W093 pin 6 and 61P-W095A pin G		
61P-W093 pin 38 and 61P-W095A pin JJ? . . . . .	r	s
r. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00). Do step w . . . . .	-	-
s. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step w . . . . .	-	-
t. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Connect 61P-W093 to 61J-W093.		
(3) Open door 504 (A1-F18AC-LMM-010).		
(4) In door 504, disconnect 61P-W012D from J4 on encoder-decoder.		

**Table 2A. TST Not Displayed on LDDI Station 2 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(5) Does continuity exist between:</p> <p>61P-W095A pin D and 61P-W012D pin HH  61P-W095A pin G and 61P-W012D pin W  61P-W095A pin JJ and 61P-W012D pin FF? .....</p>	u	v
u. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step w .....	-	-
<p>v. Malfunction is caused by one of the items listed below:</p> <p>(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).  (2) Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  (A1-F18AC-740-300, WP009 00).  Do step w .....</p>	-	-
<p>w. If disconnected, removed or opened during this procedure, make sure items listed below are connected, installed or closed:</p> <p>(1) 52J-H048  (2) 61P-F001B  (3) 61P-W012D  (4) 61P-W093  (5) 61P-W095A  (6) 61P-W095B  (7) Doors 14R, 502, 504, CPP  (8) Remove jumper wires (61P-W095A, 61P-W214C) .....</p>	-	-

**Table 3. TST Not Displayed on LDDI Station 4****System Required Components**

All system components installed.

**Related Systems Required**

Avionics Cooling System  
Electrical System  
Mission Computer System  
Multipurpose Display Group

**Support Equipment Required****Part Number or  
Type Designation****Nomenclature**

77/BN

Multimeter

**Materials Required**

None

**NOTE**

Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-300, WP044 00) may be used as an aid when doing this procedure.

Component locations are shown in WP007 00.

Memory inspect data used in this procedure is provided in WP010 19.

Malfunction is caused by one of the items listed below:

Aircraft Guided Missile Launcher LAU-116( )  
Aircraft Wiring  
Armament Computer CP-1342/AYQ-9(V)  
Digital Data Computer No. 2  
Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)  
Right Throttle Grip

Table 3. TST Not Displayed on LDDI Station 4 (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p> </div>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Open door 14R (A1-F18AC-LMM-010).</li> <li>(2) On Armament Computer CP-1342/AYQ-9(V), make sure L OUTBD and R OUTBD ARMAMENT switches are set to 84 and WING TIP switch set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero except for stations with fuel tanks installed. If fuel tanks are installed, set applicable ARMAMENT switch to 01.</li> <li>(3) Do memory inspect preliminary steps (WP010 19, Table 1) and enter unit address 6.</li> <li>(4) On master arm control panel assembly, make sure MASTER switch is set to ARM.</li> <li>(5) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.</li> <li>(6) On LDDI: <ol style="list-style-type: none"> <li>(a) Press MENU pushbutton switch.</li> </ol> </li> </ol>		

Table 3. TST Not Displayed on LDDI Station 4 (Continued)

Procedure	No	Yes
(b) Press STORES pushbutton switch.		
(7) Is AIM-7 test adapter connected to station 4? .....	b	c
b. Install AIM-7 test adapter to station 4 and do step c .....	-	-
c. Do substeps listed below:		
(1) Do SMS Maintenance BIT AIM-7 End to End Test, step 5, WP027 01.		
(2) On right throttle grip, press and release cage/uncage switch.		
(3) Is AIM-7 missile symbol and 7F removed from station 4 LDDI wingform and TST displayed? .....	d	e
d. Do substeps below:		
(1) Using unit address 06, memory inspect address for ref code MSG4 WD8 (table 2, WP010 19).		
(2) Is DATA readout display <input type="checkbox"/> 1 X51XXX or <input type="checkbox"/> 2 102(0 - 8) XX? .....	f	e
e. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step r .....	-	-
f. Do substeps below:		
(1) Memory inspect address for ref code <input type="checkbox"/> 1 INPNMO+4/BIT 4 or <input type="checkbox"/> 2 INPNMO+6 BIT 3 (table 2, WP010 19).		
(2) On right throttle grip, press and hold cage/uncage switch.		
(3) Record data readout and release cage/uncage switch.		
(4) Is DATA readout display <input type="checkbox"/> 1 XX4XXX or <input type="checkbox"/> 2 X1XXXXX? .....	g	l
g. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(3) Press and hold cage/uncage switch.		
(4) Does continuity exist from 61P-F001B pin 119 to aircraft ground? .....	i	h
h. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step l .....	-	-

Table 3. TST Not Displayed on LDDI Station 4 (Continued)

Procedure	No	Yes
i. Do substeps listed below:		
(1) Open internal door CPP (A1-F18AC-LMM-010).		
(2) Disconnect P1 from 52J-H048 on right throttle quadrant support.		
(3) Does continuity exist from:		
61P-F001B pin 119 to 52J-H048 pin 36		
aircraft ground to 52J-H048 pin 37? .....	j	k
j. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step r .....	-	-
k. Replace right throttle grip (A1-F18AC-270-300, WP088 00) and do step r .....	-	-
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C on LAU-116( ).		
(3) Install a jumper wire between 61P-Y203C pin a and aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does 115vac exist between 61P-Y203C pins j, W and X and aircraft ground? .....	m	n
m. Do table 2, WP027 19, Sparrow Weapon Station 4 115vac Power Control fail and do step r .....	-	-
n. Do substeps below:		
(1) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(2) Does continuity exist between:		
61P-Y203C pin d and 61P-P014A pin 9		
61P-Y203C pin D and 61P-P014A pin 4		
61P-Y203C pin f and 61P-P014A pin 5? .....	o	q
o. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) In door 45L, disconnect 52P-P064B from 61J-Y200B.		

Table 3. TST Not Displayed on LDDI Station 4 (Continued)

Procedure	No	Yes
<p>(3) Does continuity exist between:</p> <p>52P-P064B pin m and 61P-P014A pin 9  52P-P064B pin b and 61P-P014A pin 4  52P-P064B pin r and 61P-P014A pin 5? .....</p> <p>p. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00)  and do step r .....</p> <p>q. Malfunction is caused by one of the items listed below:</p> <p>(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).  (2) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)  (A1-F18AC-740-300, WP008 00).  Do step r .....</p> <p>r. If disconnected, removed, or opened during this procedure, make sure items listed between are  connected, installed, or closed:</p> <p>(1) 52J-H048  (2) 52P-R066B  (3) 61P-F001B  (4) 61P-P016A  (5) Doors 14R, 45R, CPP  (6) Jumper Wire (61P-Y203C) .....</p>	<p>j  -  -  -  -  -</p>	<p>p  -  -  -  -  -</p>
<p style="text-align: center;"><b>LEGEND</b></p> <p>1 ➡ On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.  2 ➡ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 4. TST Not Displayed on LDDI Station 6


<b>System Required Components</b>		
All system components installed.		
<b>Related Systems Required</b>		
Avionics Cooling System Electrical System Mission Computer System Multipurpose Display Group		
<b>Support Equipment Required</b>		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Memory inspect data used in this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Right Throttle Grip		
Procedure	No	Yes
		
To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.		



Table 4. TST Not Displayed on LDDI Station 6 (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
a. Do substeps listed below:		
(1) Open door 14R (A1-F18AC-LMM-010).		
(2) On Armament Computer CP-1342/AYQ-9(V), make sure L OUTBD and R OUTBD ARMAMENT switches are set to 84 and WING TIP switch is set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero except for stations with fuel tanks installed. If fuel tanks are installed, set applicable ARMAMENT switch to 01.		
(3) Do memory inspect preliminary steps (WP010 19, Table 1) and enter unit address 6.		
(4) On master arm control panel assembly, make sure MASTER switch is set to ARM.		
(5) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(6) On LDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
(7) Is AIM-7 test adapter connected to station 6? .....	b	c
b. Install AIM-7 test adapter to station 6 and do step c .....	-	-

Table 4. TST Not Displayed on LDDI Station 6 (Continued)

Procedure	No	Yes
c. Do substeps listed below:		
(1) Do SMS Maintenance BIT, AIM-7 End to End Test, step 5, WP027 01.		
(2) On right throttle grip, press and release cage/uncage switch.		
(3) Is AIM-7 missile symbol and 7F removed from station 6 LDDI wingform and TST displayed? .....	d	e
d. Do substeps below:		
(1) Using unit address 06, memory inspect address for ref code MSG4 WD12 (table 2, WP010 19).		
(2) Is DATA readout display <input type="checkbox"/> 1 X51XXX or <input type="checkbox"/> 2 102(0 - 3)XX? .....	f	e
e. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step r .....	-	-
f. Do substeps below:		
(1) Memory inspect address for ref code <input type="checkbox"/> 1 INPNMO+4/BIT 4 or <input type="checkbox"/> 2 INPNMO+6 BIT 3 (table 2, WP010 19).		
(2) On right throttle grip, press and hold cage/uncage switch.		
(3) Record data readout and release cage/uncage switch.		
(4) Is DATA readout display <input type="checkbox"/> 1 XX4XXX or <input type="checkbox"/> 2 X1XXXXX? .....	g	l
g. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(3) Press and hold cage/uncage switch.		
(4) Does continuity exist from 61P-F001B pin 119 to aircraft ground? .....	i	h
h. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step l. ....	-	-
i. Do substeps listed below:		
(1) Open internal door CPP (A1-F18AC-LMM-010).		
(2) Disconnect P1 from 52J-H048 on right throttle quadrant support.		

Table 4. TST Not Displayed on LDDI Station 6 (Continued)

Procedure	No	Yes
(3) Does continuity exist from:  61P-F001B pin 119 to 52J-H048 pin 36 aircraft ground to 52J-H048 pin 37? .....	j	k
j. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step l .....	-	-
k. Replace right throttle grip (A1-F18AC-270-300, WP088 00) and do step l .....	-	-
l. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Disconnect AIM-7 test adapter from 61P-Y203C on LAU-116( ).  (3) Install a jumper wire between 61P-Y203C pin a and aircraft ground.  (4) Turn on electrical power (A1-F18AC-LMM-000).  (5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.  (6) Does 115vac exist between 61P-Y203C pins j, W and X and aircraft ground? .....	m	n
m. Do table 1, WP027 20, Sparrow Weapon Station 6 115vac Power Control fail and do step r .....	-	-
n. Do substeps below:  (1) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.  (2) Does continuity exist between:  61P-Y203C pin d and 61P-R016A pin 9 61P-Y203C pin D and 61P-R016A pin 4 61P-Y203C pin f and 61P-R016A pin 5? .....	o	q
o. Do substeps listed below:  (1) Open door 45R (A1-F18AC-LMM-010).  (2) In door 45R, disconnect 52P-R066B from 61J-Y200B.  (3) Does continuity exist between:  52P-R066B pin m and 61P-R016A pin 9 52P-R066B pin b and 61P-R016A pin 4 52P-R066B pin r and 61P-R016A pin 5? .....	j	p

Table 4. TST Not Displayed on LDDI Station 6 (Continued)

Procedure	No	Yes
p. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step r . . . . .	-	-
q. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step r . . . . .	-	-
r. If disconnected, removed, or opened during this procedure, make sure items listed between are connected, installed, or closed:		
(1) 52J-H048		
(2) 52P-R066B		
(3) 61P-F001B		
(4) 61P-P016A		
(5) Doors 14R, 45R, CPP		
(6) Jumper Wire (61P-Y203C) . . . . .	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p>1 ➡ On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p>2 ➡ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 5. TST Not Displayed on LDDI Station 8 - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B

<b>System Required Components</b>
All system components installed.
<b>Related Systems Required</b>
Avionics Cooling System Electrical System Mission Computer System Multipurpose Display Group

**Table 5. TST Not Displayed on LDDI Station 8 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <ul style="list-style-type: none"> <li>Aircraft Guided Missile Launcher LAU-115C/A</li> <li>Aircraft Wing Pylon SUU-63( )</li> <li>Aircraft Wiring</li> <li>Armament Computer CP-1342/AYQ-9(V)</li> <li>LAU-115 Jumper Cable W56235</li> <li>Right Wing Outboard Pylon Command Signal</li> <li>Encoder-Decoder KY-853/AYQ-9(V)</li> <li>Digital Data Computer No. 2</li> <li>Right Throttle Grip</li> </ul>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div align="center" style="border: 2px solid black; padding: 5px; margin: 10px auto; width: 100px;"> <b>CAUTION</b> </div> <p style="text-align: center; padding-top: 20px;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

**Table 5. TST Not Displayed on LDDI Station 8 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is AIM-7 test adapter connected to station 8? .....	b	c
b. Install AIM-7 test adapter on station 8. Do steps 1, 2 and 3, AIM-7 End to End Test, WP027 01. Do step c .....	-	-
c. Do substeps listed below:		
(1) Open door 14R (A1-F18AC-LMM-010).		
(2) On Armament Computer CP-1342/AYQ-9(V). make sure L OUTBD and R OUTBD ARMAMENT switches are set to 84 and WINGTIP switch is set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero, except for stations with fuel tanks installed. If fuel tanks are installed, set applicable ARMAMENT switches to 01.		
(3) Apply electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switches to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best display.		
(6) On master arm control panel assembly, make sure Master switch is set to ARM.		
(7) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(8) On LDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		

**Table 5. TST Not Displayed on LDDI Station 8 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(9) Do SMS Maintenance BIT, AIM-7 End to End Test, step 5, WP027 01.		
(10) On right throttle grip, press and release cage/uncage switch.		
(11) Is AIM-7 missile symbol and 7F removed from station 8 LDDI wingform and TST displayed? .....	d	w
d. Was AIM-7 end to end test done on Aircraft Guided Missile Launcher LAU-115C/A? .....	h	e
e. Was AIM-7 end to end test done on Aircraft Wing Pylon SUU-63( ) before testing LAU-115? ...	g	f
f. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step w .....	-	-
g. Do substeps below:		
(1) Install AIM-7 test adapter using Test Equipment Hookup for Outboard Wing Pylon SUU-63( ), AIM-7 End to End Test, step 2b, WP027 01.		
(2) Do SMS Maintenance BIT, AIM-7 End to End Test, step 5, WP027 01.		
(3) On right throttle grip, press and release cage/uncage switch.		
(4) Is AIM-7 missile symbol and 7F removed from station 8 LDDI wing form and TST displayed? .....	h	f
h. Do substeps below:		
(1) Using unit address 06, memory inspect address for ref code MSG4 WD16 (table 2, WP010 19).		
(2) Is DATA readout display X51XXX? .....	j	i
i. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step l .....	-	-
j. Do substeps below:		
(1) Memory inspect address for ref code INPNMO+4/BIT 4 (table 2, WP010 19).		
(2) On right throttle grip, press and hold cage/uncage switch.		
(3) Release cage/uncage switch. Is DATA readout display XX4XXX? .....	k	p

**Table 5. TST Not Displayed on LDDI Station 8 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(3) Press and hold cage/uncage switch.		
(4) Does continuity exist from 61P-F001B pin 119 to aircraft ground? . . . . .	l	m
l. Do substeps listed below:		
(1) Open internal door CPP (A1-F18AC-LMM-010).		
(2) Disconnect P1 from 52J-H048 on right throttle quadrant support.		
(3) Does continuity exist from:		
61P-F001B pin 119 to 52J-H048 pin 36		
aircraft ground to 52J-H048 pin 37? . . . . .	n	o
m. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step w . . . . .	-	-
n. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step l . . . . .	-	-
o. Replace right throttle grip (A1-F18AC-270-300, WP088 00) and do step l . . . . .	-	-
p. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 launcher by-pass adapter from 61P-W095A.		
(3) Install a jumper wire between 61P-W095A pin v and aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON - for 3 seconds.		
(6) Does 115vac exist between:		
61P-W095A pin LL and aircraft ground		
61P-W095A pin CC and aircraft ground? . . . . .	q	r
q. Do table 2, WP027 20, Sparrow Weapon Station 8 115vac Power Control Fail and do step w . . . .	-	-



**Table 5. TST Not Displayed on LDDI Station 8 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>r. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 (A1-F18AC-LMM-010).</p> <p>(3) In door 504, disconnect 61P-W012D from J4 on Encoder-Decoder.</p> <p>(4) Does continuity exist between:</p> <p>61P-W095A pin D and 61P-W012D pin HH  61P-W095A pin G and 61P-W012D pin W  61P-W095A pin JJ and 61P-W012D pin FF? . . . . .</p>	s	v
<p>s. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable W56235, does continuity exist between:</p> <p>61P-W095A pin D and 61P-W093 pin 2  61P-W095A pin G and 61P-W093 pin 6  61P-W095A pin JJ and 61P-W093 pin 38? . . . . .</p>	t	u
t. Replace LAU-115C/A jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step w . . .	-	-
u. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step w . . . . .	-	-
<p>v. Malfunction is caused by one of the items listed below:</p> <p>(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>(2) Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  (A1-F18AC-740-300, WP009 00).</p> <p>Do step w . . . . .</p>	-	-
<p>w. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 61P-F001B</p> <p>(2) 61P-W012D</p> <p>(3) 61P-W093</p> <p>(4) Doors 14R, 504</p> <p>(5) Jumper Wire (61P-W095A)</p> <p>(6) Right Throttle Grip . . . . .</p>	-	-

**Table 5A. TST Not Displayed on LDDI Station 8 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

**System Required Components**

All system components installed.

**Related Systems Required**

Avionics Cooling System  
Electrical System  
Mission Computer System  
Multipurpose Display Group

**Support Equipment Required**

**Part Number or  
Type Designation**

**Nomenclature**

77/BN

Multimeter

**Materials Required**

None

**NOTE**

Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as aids when doing this procedure.

Component locations are shown in WP007 00.

Memory inspect data used in this procedure is provided in WP010 19.

Malfunction is caused by one of the items listed below:

Aircraft Guided Missile Launcher LAU-115C/A  
Aircraft Wing Pylon SUU-63( )  
Aircraft Wiring  
Armament Computer CP-1342/AYQ-9(V)  
LAU-115 Jumper Cable W56235  
Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  
Digital Data Computer No. 2  
Right Throttle Grip

**Table 5A. TST Not Displayed on LDDI Station 8 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Is AIM-7 test adapter connected to station 8? .....	b	c
b. Do substeps listed below:		
(1) Install AIM-7 test adapter on station 8.		
(2) Do steps 1, 2 and 3, AIM-7 End to End Test, WP027 01.		
(3) Do step c .....	-	-
c. Do substeps listed below:		
(1) Open door 14R (A1-F18AC-LMM-010).		
(2) On Armament Computer CP-1342/AYQ-9(V), make sure L OUTBD and R OUTBD ARMAMENT switches are set to 84 and WINGTIP switch is set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero, except for stations with fuel tanks installed. If fuel tanks are installed, set applicable ARMAMENT switches to 01.		
(3) Do Memory Inspect Preliminary Steps (WP010 19) and enter unit address 6.		
(4) On master arm control panel assembly, make sure Master switch is set to ARM.		
(5) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(6) On LDDI:		
(a) Press and release MENU pushbutton until STORES option is displayed.		
(b) Press STORES pushbutton switch.		
(7) Do SMS Maintenance BIT, AIM-7 End to End Test, step 5, WP027 01.		

**Table 5A. TST Not Displayed on LDDI Station 8 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(8) On right throttle grip, press and release cage/uncage switch.</p> <p>(9) Is AIM-7 missile symbol and 7F removed from station 8 LDDI wingform and TST displayed? .....</p> <p>d. Do substeps below:</p> <p>(1) Using unit address 6, memory inspect address for ref code MSG4 WD16 (table 2, WP010 19).</p>	d	w
<p><b>NOTE</b></p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
<p>(2) Is DATA readout display 102(0 - 3)XX? .....</p> <p>e. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00). Do step w .....</p> <p>f. Do substeps below:</p> <p>(1) Using unit address 6, memory inspect address for ref code INPNMO+6 BIT 3 (table 2, WP010 19).</p> <p>(2) On right throttle grip, press and hold cage/uncage switch.</p> <p>(3) Release cage/uncage switch. Is DATA readout display X1XXXX? .....</p> <p>g. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(3) Press and hold cage/uncage switch.</p> <p>(4) Does continuity exist between 61P-F001B pin 119 and aircraft ground? .....</p> <p>h. Do substeps listed below:</p> <p>(1) Open internal door CPP (A1-F18AC-LMM-010).</p> <p>(2) Disconnect P1 from 52J-H048 on right throttle quadrant support.</p>	f - g i	e - l h

**Table 5A. TST Not Displayed on LDDI Station 8 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(3) Does continuity exist between:  61P-F001B pin 119 and 52J-H048 pin 36 aircraft ground and 52J-H048 pin 37? .....	j	k
i. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step w .....	-	-
j. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step w .....	-	-
k. Replace right throttle grip (A1-F18AC-270-300, WP088 00). Do step w .....	-	-
l. Do substeps below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Disconnect AIM-7 test adapter from LAU-115.  (3) Install a jumper wire between 61P-W214C pin a and aircraft ground.  (4) Turn on electrical power (A1-F18AC-LMM-000).  (5) On GND PWR control panel assembly set and hold 1, 2 and 3 switches to B ON for 3 seconds.  (6) Does 115vac exist from 61P-W214C pin j to aircraft ground? .....	m	p
m. Do substeps below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Open door 502 (A1-F18AC-LMM-010).  (3) Disconnect 61P-W095A from 61J-W095A.  (4) Disconnect 61P-W095B from 61J-W095B.  (5) Install a jumper wire between 61P-W095A pin v and aircraft ground.  (6) Turn on electrical power (A1-F18AC-LMM-000).  (7) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.  (8) Does 115vac exist from 61P-W095B pin DD to aircraft ground? .....	n	o

**Table 5A. TST Not Displayed on LDDI Station 8 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
n. Do table 2A WP027 20, Sparrow Weapon Station 8, 115vac Power Control Fail. Do step w . . . . .	-	-
o. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step w . . . . .	-	-
p. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 (A1-F18AC-LMM-000).		
(3) Disconnect 61P-W093 from 61J-W093.		
(4) Does continuity exist between:		
61P-W093 pin 2 and 61P-W214C pin d		
61P-W093 pin 6 and 61P-W214C pin D		
61P-W093 pin 38 and 61P-W214C pin f? . . . . .	q	t
q. Do substeps below:		
(1) Disconnect 61P-W095A from 61J-W095A.		
(2) Disconnect 61P-W095B from 61J-W095B.		
(3) On LAU-115 jumper cable W56235 does continuity exist between:		
61P-W093 pin 2 and 61P-W095A pin D		
61P-W093 pin 6 and 61P-W095A pin G		
61P-W093 pin 38 and 61P-W095A pin JJ? . . . . .	r	s
r. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00). Do step w . . . . .	-	-
s. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step w . . . . .	-	-
t. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 (A1-F18AC-LMM-010).		
(3) In door 504, disconnect 61P-W012D from J4 on Encoder-Decoder.		

**Table 5A. TST Not Displayed on LDDI Station 8 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(4) Does continuity exist between:</p> <p>61P-W095A pin D and 61P-W012D pin HH  61P-W095A pin G and 61P-W012D pin W  61P-W095A pin JJ and 61P-W012D pin FF? .....</p>	u	v
u. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step w .....	-	-
<p>v. Malfunction is caused by one of the items listed below:</p> <p>(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).  (2) Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  (A1-F18AC-740-300, WP009 00).    Do step w .....</p>	-	-
<p>w. If disconnected, removed or opened during this procedure, make sure items listed below  are connected, installed or closed:</p> <p>(1) 52J-H048  (2) 61P-F001B  (3) 61P-W012D  (4) 61P-W093  (5) 61P-W095A  (6) 61P-W095B  (7) Doors 14R, 502, 504, CPP  (8) Remove jumper wires (61P-W095A, 61P-W214C) .....</p>	-	-

**Table 6. 7F Not Displayed on LDDI Station 3 or 7 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

**System Required Components**

All system components installed.

**Related Systems Required**

Avionics Cooling System  
Electrical System  
Mission Computer System  
Multipurpose Display Group

**Support Equipment Required**

None

**Materials Required**

None

**NOTE**

AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP045 00) may be used as an aid when doing this procedure.

Component locations are shown in WP007 00.

Memory inspect data used in this procedure is provided in WP010 19.

Malfunction is caused by one of the items listed below:

Armament Computer CP-1342/AYQ-9(V)  
Digital Data Computer No. 2

Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) Open door 14R (A1-F18AC-LMM-010).</p> <p>(2) On Armament Computer CP-1342/AYQ-9(V), make sure L INBD and R INBD ARMAMENT switches are set to 84 and WING TIP switch is set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero except stations with fuel tanks loaded. Where fuel tanks are installed, set ARMAMENT switches to 01.</p> <p>(3) Do Memory Inspect Procedure (WP010 19) and enter unit, address 6.</p> <p>(4) On master arm control panel assembly, make sure MASTER switch is set to ARM.</p> <p>(5) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.</p>		



**Table 6. 7F Not Displayed on LDDI Station 3 or 7 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(6) On LDDI:</p> <p>(a) Press and release MENU pushbutton until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(7) Is 7F displayed on station 3 LDDI wingform? .....</p> <p>b. Do substeps below:</p> <p>(1) Using unit address 6, memory inspect address for ref code MSG 4 WD6 (table 2, WP010 19).</p>	b	e
<b>NOTE</b>		
<p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
<p>(2) On RDDI, does DATA readout display 102(0 - 3)XX? .....</p> <p>c. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00). Do step f .....</p> <p>d. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step f .....</p> <p>e. Do substeps below:</p> <p>(1) Using unit address 6, memory inspect address for ref code MSG 4 WD14 (table 2, WP010 19).</p>	d - - -	c - -
<b>NOTE</b>		
<p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
<p>(2) On RDDI, does DATA readout display 102(0 - 3)XX? .....</p> <p>f. If disconnected, removed or opened during this procedure, make sure item listed below are connected, installed or closed:</p> <p>(1) Door 14R .....</p>	d - -	c - -

**Table 7. TST Not Displayed on LDDI Station 3 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

**System Required Components**

All system components installed.

**Related Systems Required**

Avionics Cooling System  
Electrical System  
Mission Computer System  
Multipurpose Display Group

**Support Equipment Required**

**Part Number or  
Type Designation**

**Nomenclature**

77/BN

Multimeter

**Materials Required**

None

**NOTE**

Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as aids when doing this procedure.

Component locations are shown in WP007 00.

Memory inspect data used in this procedure is provided in WP010 19.

Malfunction is caused by one of the items listed below:

Aircraft Guided Missile Launcher LAU-115C/A  
Aircraft Wing Pylon SUU-63( )  
Aircraft Wiring  
Armament Computer CP-1342/AYQ-9(V)  
Digital Data Computer No. 2  
LAU-115 Jumper Cable W56235  
Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  
Right Throttle Grip

**Table 7. TST Not Displayed on LDDI Station 3 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Is AIM-7 test adapter connected to station 3? .....	b	c
b. Do substeps below:		
(1) Install AIM-7 test adapter on station 3. Do steps 1, 2 and 3 of AIM-7 End to End Test, WP027 01.		
(2) Do step c .....	-	-
c. Do substeps below:		
(1) Open door 14R (A1-F18AC-LMM-010).		
(2) On Armament Computer CP-1342/AYQ-9(V), make sure L INBD and R INBD ARMAMENT switches are set to 84 and WINGTIP switch is set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero, except for stations with fuel tanks installed. If fuel tanks are installed, set applicable ARMAMENT switch to 01.		
(3) Do Memory Inspect Preliminary Steps (WP010 19) and enter unit address 6.		
(4) On master arm control panel assembly, make sure Master switch is set to ARM.		
(5) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(6) On LDDI:		
(a) Press and release MENU pushbutton until STORES option is displayed.		
(b) Press STORES pushbutton switch.		
(7) Do SMS Maintenance BIT AIM-7 End to End Test, step 5, WP027 01.		
(8) On right throttle grip, press and release cage/uncage switch.		

**Table 7. TST Not Displayed on LDDI Station 3 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(9) Is AIM-7 missile symbol and 7F removed from station 3 LDDI wingform and TST displayed? .....</p> <p>d. Do substeps below:</p> <p>(1) Using unit address 6, memory inspect address for ref code MSG4 WD6 (table 2, WP010 19).</p> <p align="center"><b>NOTE</b></p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p> <p>(2) Is DATA readout display 102(0 - 3)XX? .....</p> <p>e. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00). Do step v .....</p> <p>f. Do substeps below:</p> <p>(1) Using unit address 6, memory inspect address for ref code INPMNO+6 (table 2, WP010 19).</p> <p>(2) On right throttle grip, press and hold cage/uncage switch.</p> <p>(3) Record data readout and release cage/uncage switch.</p> <p>(4) Is DATA readout display X1XXXX? .....</p> <p>g. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(3) Press and hold cage/uncage switch.</p> <p>(4) Does continuity exist between 61P-F001B pin 119 and aircraft ground? .....</p> <p>h. Do substeps listed below:</p> <p>(1) Open internal door CPP (A1-F18AC-LMM-010).</p> <p>(2) Disconnect P1 from 52J-H048 on right throttle quadrant support.</p>	<p>d</p> <p>f</p> <p>-</p> <p>g</p> <p>h</p>	<p>v</p> <p>e</p> <p>-</p> <p>l</p> <p>i</p>

**Table 7. TST Not Displayed on LDDI Station 3 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(3) Does continuity exist between:  61P-F001B pin 119 and 52J-H048 pin 36 aircraft ground and 52J-H048 pin 37? .....	j	k
i. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step v .....	-	-
j. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step v .....	-	-
k. Replace Right Throttle Grip (A1-F18AC-270-300, WP088 00). Do step v .....	-	-
l. Do substeps below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Disconnect AIM-7 test adapter from LAU-115.  (3) Install a jumper wire between 61P-W214C pin a and aircraft ground.  (4) Turn on electrical power (A1-F18AC-LMM-000).  (5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.  (6) Does 115vac exist from 61P-W214C pin j to aircraft ground? .....	m	p
m. Do substeps below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Open door 502 (A1-F18AC-LMM-010).  (3) Disconnect 61P-W095A from 61J-W095A.  (4) Disconnect 61P-W095B from 61J-W095B.  (5) Install a jumper wire between 61P-W095A pin v and aircraft ground.  (6) Turn on electrical power (A1-F18AC-LMM-000).  (7) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.  (8) Does 115vac exist from 61P-W095B pin DD to aircraft ground? .....	n	o

**Table 7. TST Not Displayed on LDDI Station 3 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
n. Do table 3, WP027 20, Sparrow Weapon Station 3, 115vac Power Control Fail. Do step v .....	-	-
o. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step v .....	-	-
p. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 (A1-F18AC-LMM-000).		
(3) Disconnect 61P-W093 from 61J-W093.		
(4) Does continuity exist between:		
61P-W093 pin 2 and 61P-W214C pin d		
61P-W093 pin 6 and 61P-W214C pin D		
61P-W093 pin 38 and 61P-W214C pin f? .....	q	s
q. Do substeps below:		
(1) Disconnect 61P-W095A from 61J-W095A.		
(2) Disconnect 61P-W095B from 61J-W095B.		
(3) On LAU-115 jumper cable W56235 does continuity exist between:		
61P-W093 pin 2 and 61P-W095A pin D		
61P-W093 pin 6 and 61P-W095A pin G		
61P-W093 pin 38 and 61P-W095A pin JJ? .....	r	o
r. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00). Do step v .....	-	-
s. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Connect 61P-W093 to 61J-W093.		
(3) Open door 504 (A1-F18AC-LMM-010).		

**Table 7. TST Not Displayed on LDDI Station 3 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(4) In door 504, disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Does continuity exist between:		
61P-W095A pin D and 61P-W012D pin HH		
61P-W095A pin G and 61P-W012D pin W		
61P-W095A pin JJ and 61P-W012D pin FF? .....	t	u
t. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step v .....	-	-
u. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Left Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
Do step v .....	-	-
v. If disconnected, removed or opened during this procedure, make sure items listed below are connected, installed or closed:		
(1) 52J-H048		
(2) 61P-F001B		
(3) 61P-W012D		
(4) 61P-W093		
(5) 61P-W095A		
(6) 61P-W095B		
(7) Doors 14R, 502, 504, CPP		
(8) Remove jumper wires (61P-W095A, 61P-W214C) .....	-	-

**Table 8. TST Not Displayed on LDDI Station 7 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

**System Required Components**

All system components installed.

**Related Systems Required**

Avionics Cooling System  
Electrical System  
Mission Computer System  
Multipurpose Display Group

**Support Equipment Required**

**Part Number or  
Type Designation**

**Nomenclature**

77/BN

Multimeter

**Materials Required**

None

**NOTE**

Armament Computer Input/Output Interface Schematic (A1-F18AC-740-500, WP011 00) and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as aids when doing this procedure.

Component locations are shown in WP007 00.

Malfunction is caused by one of the items listed below:

Aircraft Guided Missile Launcher LAU-115C/A  
Aircraft Wing Pylon SUU-63( )  
Aircraft Wiring  
Armament Computer CP-1342/AYQ-9(V)  
LAU-115 Jumper Cable W56235  
Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  
Digital Data Computer No. 2  
Right Throttle Grip



**Table 8. TST Not Displayed on LDDI Station 7 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is AIM-7 test adapter connected to station 7? .....	b	c
b. Do substeps listed below:		
(1) Install AIM-7 test adapter on station 7. Do steps 1, 2 and 3, AIM-7 End to End Test, WP027 01.		
(2) Do step c .....	-	-
c. Do substeps listed below:		
(1) Open door 14R (A1-F18AC-LMM-010).		
(2) On Armament Computer CP-1342/AYQ-9(V), make sure L INBD and R INBD ARMAMENT switches are set to 84 and WINGTIP switch is set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero, except for stations with fuel tanks installed. If fuel tanks are installed, set applicable ARMAMENT switches to 01.		
(3) Do Memory Inspect Preliminary Steps (WP010 19) and enter unit address 6.		
(4) On master arm control panel assembly, make sure Master switch is set to ARM.		
(5) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(6) On LDDI:		
(a) Press and release MENU pushbutton until STORES option is displayed.		
(b) Press STORES pushbutton switch.		
(7) Do SMS Maintenance BIT, AIM-7 End to End Test, step 5, WP027 01.		

**Table 8. TST Not Displayed on LDDI Station 7 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(8) On right throttle grip, press and release cage/uncage switch.		
(9) Is AIM-7 missile symbol and 7F removed from station 7 LDDI wingform and TST displayed? .....	d	v
d. Do substeps below:		
(1) Using unit address 6, memory inspect address for ref code MSG4 WD14 (table 2, WP010 19).		
<b>NOTE</b>		
There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.		
(2) Is DATA readout display 102(0 - 3)XX? .....	f	e
e. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00). Do step v .....	-	-
f. Do substeps below:		
(1) Using unit address 6, memory inspect address for ref code INPNMO+6 BIT 3 (table 2, WP010 19).		
(2) On right throttle grip, press and hold cage/uncage switch.		
(3) Release cage/uncage switch. Is DATA readout display X1XXXX? .....	g	l
g. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(3) Press and hold cage/uncage switch.		
(4) Does continuity exist between 61P-F001B pin 119 and aircraft ground? .....	h	i
h. Do substeps listed below:		
(1) Open internal door CPP (A1-F18AC-LMM-010).		
(2) Disconnect P1 from 52J-H048 on right throttle quadrant support.		

**Table 8. TST Not Displayed on LDDI Station 7 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(3) Does continuity exist between:  61P-F001B pin 119 and 52J-H048 pin 36 aircraft ground and 52J-H048 pin 37? .....	j	k
i. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step v .....	-	-
j. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step v .....	-	-
k. Replace right throttle grip (A1-F18AC-270-300, WP088 00). Do step v .....	-	-
l. Do substeps below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Disconnect AIM-7 test adapter from LAU-115.  (3) Install a jumper wire between 61P-W214C pin a and aircraft ground.  (4) Turn on electrical power (A1-F18AC-LMM-000).  (5) On GND PWR control panel assembly set and hold 1, 2 and 3 switches to B ON for 3 seconds.  (6) Does 115vac exist from 61P-W214C pin j to aircraft ground? .....	m	p
m. Do substeps below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Open door 502 (A1-F18AC-LMM-010).  (3) Disconnect 61P-W095A from 61J-W095A.  (4) Disconnect 61P-W095B from 61J-W095B.  (5) Install a jumper wire between 61P-W095A pin v and aircraft ground.  (6) Turn on electrical power (A1-F18AC-LMM-000).  (7) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.  (8) Does 115vac exist from 61P-W095B pin DD to aircraft ground? .....	n	o

**Table 8. TST Not Displayed on LDDI Station 7 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
n. Do table 3, WP027 20, Sparrow Weapon Station 7, 115vac Power Control Fail. Do step v . . . . .	-	-
o. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step v . . . . .	-	-
p. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 (A1-F18AC-LMM-000).		
(3) Disconnect 61P-W093 from 61J-W093.		
(4) Does continuity exist between:		
61P-W093 pin 2 and 61P-W214C pin d		
61P-W093 pin 6 and 61P-W214C pin D		
61P-W093 pin 38 and 61P-W214C pin f? . . . . .	q	s
q. Do substeps below:		
(1) Disconnect 61P-W095A from 61J-W095A.		
(2) Disconnect 61P-W095B from 61J-W095B.		
(3) On LAU-115 jumper cable W56235 does continuity exist between:		
61P-W093 pin 2 and 61P-W095A pin D		
61P-W093 pin 6 and 61P-W095A pin G		
61P-W093 pin 38 and 61P-W095A pin JJ? . . . . .	r	o
r. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00). Do step v . . . . .	-	-
s. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 (A1-F18AC-LMM-010).		
(3) In door 504, disconnect 61P-W012D from J4 on Encoder-Decoder.		
(4) Does continuity exist between:		
61P-W095A pin D and 61P-W012D pin HH		
61P-W095A pin G and 61P-W012D pin W		
61P-W095A pin JJ and 61P-W012D pin FF? . . . . .	t	u

**Table 8. TST Not Displayed on LDDI Station 7 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
t. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step v .....	-	-
u. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
Do step v .....	-	-
v. If disconnected, removed or opened during this procedure, made sure items listed below are connected, installed or closed:		
(1) 52J-H048		
(2) 61P-F001B		
(3) 61P-W012D		
(4) 61P-W093		
(5) 61P-W095A		
(6) 61P-W095B		
(7) Doors 14R, 502, 504, CPP		
(8) Remove jumper wires (61P-W095A, 61P-W214C) .....	-	-



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - STATION 2 AND 3 AIM-7 END TO END TEST MEMORY INSPECT

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

## 1. INTRODUCTION.

2. The memory inspect troubleshooting tables in this work package provide fault isolation when the AIM-7 end to end test failed on station 2 or station 3.

3. Each AIM-7 weapon station has three memory inspect address locations. Table 1 isolates which of the three address locations failed on station 2 and table 5 for station 3.

4. Tables 2, 3 and 4 interpret the data readout recorded in table 1 for station 2. Tables 6, 7 and 8 are used to interpret the data read out recorded in table 5 for station 3. The tables also provide the maintenance action for the related fail.

**Table 1. Station 2 AIM-7 End To End Test Memory Inspect**

<b>Support Equipment Required</b>  None					
<b>Materials Required</b>  None					
<b>NOTE</b>  Component locations are shown in WP007 00.  Memory inspect data used in this procedure is provided in WP010 19.  Paragraph 1 provides WP troubleshooting description/logic.  Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) and Weapon Station 2 Power Control Schematic (A1-F18AC-740-500, WP027 00) are used to fault isolate failed signal lines identified in tables 2, 3, and 4. The items listed below are shown on there schematics.  Malfunction is caused by one of the items listed below:  Aircraft Guided Missile Launcher LAU-115C/A Aircraft Wing Pylon SUU-63( ) (Left Outboard) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) No. 7 Circuit Breaker/Relay Panel Assembly <input type="checkbox"/> No. 8 Circuit Breaker/Relay Panel Assembly <input type="checkbox"/> No. 5 Circuit Breaker Panel Assembly <input type="checkbox"/> No. 11 Relay Panel Assembly					
<b>Procedure</b>	<b>No</b>	<b>Yes</b>			
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; border-right: 1px solid black; padding: 5px;">a. Was AIM-7 end to end test done on Aircraft Guided Missile Launcher LAU-115C/A? .....</td> <td style="width: 10%; text-align: center; border-right: 1px solid black; padding: 5px;">e</td> <td style="width: 10%; text-align: center; padding: 5px;">b</td> </tr> </table>			a. Was AIM-7 end to end test done on Aircraft Guided Missile Launcher LAU-115C/A? .....	e	b
a. Was AIM-7 end to end test done on Aircraft Guided Missile Launcher LAU-115C/A? .....	e	b			



**Table 1. Station 2 AIM-7 End To End Test Memory Inspect (Continued)**

Procedure	No	Yes
b. Was AIM-7 end to end test done on Aircraft Wing Pylon SUU-63( ) before testing LAU-115? . . .	d	c
c. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) . . . . .	-	-
d. Do AIM-7 end to end test (table 1, WP027 01) using Test Equipment Hookup for Outboard Wing Pylon SUU-63( ). Did test check good? . . . . .	e	c
e. Do substeps below:		
(1) Using unit address 06, memory inspect address for ref code ETMA (table 2, WP010 19).		
(2) On RDDI, does DATA readout display 000000? . . . . .	f	g
f. Record DDI DATA readout. Interpret data readout using table 2 (this WP) . . . . .	-	-
g. Do substeps below:		
(1) Memory inspect address for ref code ETMA+2 (table 2, WP010 19).		
(2) On RDDI, does DATA readout display 000000? . . . . .	h	i
h. Record DDI DATA readout. Interpret data readout using table 3 (this WP) . . . . .	-	-
i. Do substeps below:		
(1) Memory inspect address for ref code ETMA+4 (table 2, WP010 19).		
(2) Record DDI DATA readout. Interpret data readout using table 4 (this WP) . . . . .	-	-
<b>LEGEND</b>		
<div>1</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 2. Station 2 Word 1 Data Readout Interpretation

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p align="center"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the Test/Signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X37XXX	Phase A Power	115vac $\phi$ A	<div>1</div> 61P-W095A pin LL <div>2</div> 61P-W095B pin DD	Do <div>1</div> table 1 or <div>2</div> table 1A, WP027 19
	115vac Power Return	115vac $\phi$ A Return	<div>1</div> 61P-W095A pin PP <div>2</div> 61P-W095B pin LL	
X1XX1X	Inflight Switch ON	Inflight Switch	61P-W095A pin G	Do table 1, WP027 07
XXX42X	Altitude 2 Switch ON	Altitude Switch 2	61P-W095A pin E	Do table 2, WP027 07
XXX525	Recycle	Recycle	61P-W095A pin y	Do table 3, WP027 07
		Altitude 2 ON	61P-W095A pin E	
		Sweep Control ON	61P-W095A pin f	
		Battery Hydraulic ON	<div>1</div> 61P-W095A pin Z <div>2</div> 61P-W095B pin R	

Table 2. Station 2 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X12XXX	Missile Ident	Roll Command ON	61P-W095A pin x	Do table 4, WP027 07
		Sweep Select ON	61P-W095A pin AA	
		AIM-7 Indent	61P-W095A pin v	
		Inflight Switch ON	61P-W095A pin G	
		Altitude 1 ON	61P-W095A pin D	
X25252	Battery Armed	Stray Voltage		Do <input type="checkbox"/> table 5 or <input type="checkbox"/> table 5A, WP027 07
		115vac $\phi$ A	<input type="checkbox"/> 61P-W095A pin LL, PP <input type="checkbox"/> 61P-W095B pins DD, LL	
		Motor Fire	61P-W095A pin A, B, and C	
		Battery and Hydraulic Activate	<input type="checkbox"/> 61P-W095A pin Z <input type="checkbox"/> 61P-W095B pin R	
		Ground	<input type="checkbox"/> 61P-W095A pin X <input type="checkbox"/> 61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
		Inflight Switch OFF	61P-W095A pin G	
		Altitude 1 OFF	61P-W095A pin D	
		Sweep Control OFF	61P-W095A pin f	
		Battery Hydraulic OFF	<input type="checkbox"/> 61P-W095A pin Z <input type="checkbox"/> 61P-W095B pin R	
		Roll Command OFF	61P-W095A pin x	
X4XXXX	Sparrow ID OFF (open)	AIM-7 Ident	61P-W095A pin v	Do table 6, WP027 07
X2XXXX	Stray Voltage	115vac $\phi$ A	<input type="checkbox"/> 61P-W095A pin LL, and PP <input type="checkbox"/> 61P-W095B pins DD, LL	Do table 7, WP027 07 Do table 7A, WP027 07

Table 2. Station 2 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X1XXXX	Inflight Switch ON	Motor Fire	61P-W095A pin A, B and C	Do table 1, WP027 08
		Battery and Hydraulic Activate	1 61P-W095A pin Z 2 61P-W095B pin R	
		Ground	61P-W095A pin X and GG and 2 61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
		Inflight Switch	61P-W095A pin G	
		AIM-7 Ident	61P-W095A pin v	
XX4XXX	Inflight Switch OFF	Inflight Switch	61P-W095A pin G	Do table 1, WP027 08
		AIM-7 Ident	61P-W095A pin v	
XX2XXX	Altitude Switch 1 ON	Altitude Switch 1	61P-W095A pin D	Do table 2, WP027 08
XX1XXX	Altitude Switch 1 OFF	Altitude Switch 1	61P-W095A pin D	Do table 2, WP027 08
XXX4XX	Altitude 2 Switch ON	Altitude Switch 2	61P-W095A pin E	Do table 3, WP027 08
		Launch Command	61P-W095A pin Y and u	
		Fuze Out	61P-W095A pin b and c	
		115vac $\phi$ B	1 61P-W095A pin MM 2 61P-W095B pin EE	
		115vac $\phi$ C	1 61P-W095A pin NN 2 61P-W095B pin FF	
		Recycle	61P-W095A pin y	
XXX2XX	Altitude 2 Switch OFF	Altitude Switch 2	61P-W095A pin E	Do table 2, WP027 07
XXX1XX	Sweep Control ON	Sweep Control	61P-W095A pin f	Do table 4, WP027 08
XXXX4X	Sweep Control OFF	Sweep Control	61P-W095A pin f	Do table 4, WP027 08
XXXX2X	Battery and Hydraulic Activate ON	Battery and Hydraulic Activate	1 61P-W095A pin Z 2 61P-W095B pin R	Do table 5, WP027 08

**Table 2. Station 2 Word 1 Data Readout Interpretation (Continued)**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XXXX1X	Battery and Hydraulic Activate OFF	Battery and Hydraulic Activate	<div>1</div> 61P-W095A pin Z <div>2</div> 61P-W095B pin R	Do table 5, WP027 08
XXXXX4	Roll Command ON	Roll Command	61P-W095A pin x	Do table 6, WP027 08
XXXXX2	Roll Command OFF	Roll Command	61P-W095A pin x	Do table 6, WP027 08
XXXXX1	Sweep Select ON	Sweep Select	61P-W095A pin AA	Do table 7, WP027 08
<b>LEGEND</b> <div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.				

**Table 3. Station 2 Word 2 Data Readout Interpretation**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<b>NOTE</b>  Refer to table 1 for station test word address.  When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. <b>EXAMPLE:</b> Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.  Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the maintenance Action Column. Table 1 lists the components that can cause these failures.  Use Weapon Station 2 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP037 00) to isolate signal line failures.  <b>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA</b> readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.  <b>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP;</b> There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.				

Table 3. Station 2 Word 2 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X5252X	Recycle	English Bias Yaw ON	61P-W095A pin e	Do table 8, WP027 08
		Pulse Doppler ON	61P-W095A pin F	
		Head Aim Pitch/ True Air Speed ON	61P-W095A pin h	
		Head Aim Yaw/ Range At Launch ON	61P-W095A pin M	
		English Bias Pitch ON	61P-W095A pin j	
		Simulated Doppler ON	61P-W095A pin J and K	
12525X	Battery Armed	Sweep Select OFF	61P-W095A pin AA	Do table 9, WP027 08
		English Bias Yaw OFF	61P-W095A pin e	
		Pulse Doppler OFF	61P-W095A pin F	
		Head Aim Pitch/ True Air Speed OFF	61P-W095A pin h	
		Head Aim Yaw/ Range At Launch OFF	61P-W095A pin M	
		English Bias Pitch OFF	61P-W095A pin j	
		Simulated Doppler OFF	61P-W095A pin J and K	
1XXXXX	Sweep Select OFF	Sweep Select	61P-W095A pin AA	Do table 7, WP027 08
X4XXXX	English Bias Yaw ON	English Bias Yaw	61P-W095A pin e	Do table 10, WP027 08
X2XXXX	English Bias Yaw OFF	English Bias Yaw	61P-W095A pin e	Do table 10, WP027 08
X1XXXX	Pulse Doppler ON	Pulse Doppler Command	61P-W095A pin F	Do table 1, WP027 09
XX4XXX	Pulse Doppler OFF	Pulse Doppler Command	61P-W095A pin F	Do table 1, WP027 09
XX2XXX	Head Aim Pitch/ True Air Speed ON	Head Aim Pitch/ TAS	61P-W095A pin h	Do table 2, WP027 09

**Table 3. Station 2 Word 2 Data Readout Interpretation (Continued)**

<b>Data Readout</b>	<b>Test</b>	<b>Signal Line</b>	<b>Launcher Connector/Pin</b>	<b>Maintenance Action</b>
XX1XXX	Head Aim Pitch/ True Air Speed OFF	Head Aim Pitch/ TAS	61P-W095A pin h	Do table 2, WP027 09
XXX4XX	Head Aim Yaw/ Range at Launch ON	Head Aim Yaw/ Range At Launch	61P-W095A pin M	Do table 3, WP027 09
XXX2XX	Head Aim Yaw/ Range at Launch OFF	Head Aim Yaw/ Range At Launch	61P-W095A pin M	Do table 3, WP027 09
XXX1XX	English Bias Pitch ON	English Bias Pitch	61P-W095A pin j	Do table 4, WP027 09
XXXX4X	English Bias Pitch OFF	English Bias Pitch	61P-W095A pin j	Do table 4, WP027 09
XXXX2X	Simulated Doppler ON	Simulated Doppler	61P-W095A pin J and K	Do table 5, WP027 09
XXXX1X	Simulated Doppler OFF	Simulated Doppler	61P-W095A pin J and K	Do table 5, WP027 09

**Table 4. Station 2 Word 3 Data Readout Interpretation**

<b>Data Readout</b>	<b>Test</b>	<b>Signal Line</b>	<b>Launcher Connector/Pin</b>	<b>Maintenance Action</b>
<p style="text-align: center;"><b>NOTE</b></p> <p>Refer to table 1 for station test word address.</p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.</p> <p>Use Weapon Station 2 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP037 00) to isolate signal line failures.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				

Table 4. Station 2 Word 3 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X2X1XX	Inflight Switch	Motor Fire OFF	61P-W095A pin A, B, and C	Do <input type="checkbox"/> table 6 or <input type="checkbox"/> table 6A, WP027 09
		Stray Voltage		
		115vac $\phi$ A	<input type="checkbox"/> 61P-W095A pin LL and PP <input type="checkbox"/> 61P-W095B pins DD and LL	
		Motor Fire	61P-W095A pin A, B, and C	
		Battery and Hydraulic Activate	<input type="checkbox"/> 61P-W095A pin Z <input type="checkbox"/> 61P-W095B pin R	
		Ground	<input type="checkbox"/> 61P-W095A pin X and GG <input type="checkbox"/> 61P-W095A pin GG and 61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
X2X1XX	Battery Armed	Motor Fire OFF	61P-W095A pin A, B, and C	Do <input type="checkbox"/> table 6 or <input type="checkbox"/> table 6A, WP027 09
		Stray Voltage		
		115vac $\phi$ A	<input type="checkbox"/> 61P-W095A pin LL and PP <input type="checkbox"/> 61P-W095B pins DD and LL	
		Motor Fire	61P-W095A pin A, B, and C	
		Battery and Hydraulic Activate	<input type="checkbox"/> 61P-W095A pin Z <input type="checkbox"/> 61P-W095B pin R	
		Ground	<input type="checkbox"/> 61P-W095A pin X and GG <input type="checkbox"/> 61P-W095A pin GG and 61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
X4XXXX	Motor Fire ON	Motor Fire	61P-W095A pin A and B	Do table 7, WP027 09
		Altitude Switch 2	61P-W095A pin E	
		Recycle	61P-W095A pin y	



Table 4. Station 2 Word 3 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X2XXXX	Motor Fire OFF	Motor Fire	61P-W095A pin A and B	Do <input type="checkbox"/> 1 table 8 or <input type="checkbox"/> 2 table 8A, WP027 09
X1XXXX	Lock Driver ON	Launcher Lock Command	61P-W095A pin DD	Do <input type="checkbox"/> 1 table 1 or <input type="checkbox"/> 2 table 1A, WP027 10
		Lock Monitor LAU-115	61P-W095A pin HH	
		Unlock Monitor LAU-115	61P-W095A pin BB	
		Signal Ground	<input type="checkbox"/> 1 61P-W095A pin X <input type="checkbox"/> 2 61P-W095B pin C	
		L28vdc (A/A)	<input type="checkbox"/> 1 61P-W095A pin EE <input type="checkbox"/> 2 61P-W095B pin HH	
XX4XXX	Unlock Driver ON	Launcher Unlock Command	61P-W095A pin KK	Do <input type="checkbox"/> 1 table 2 or <input type="checkbox"/> 2 table 2A, WP027 10
		Lock Monitor LAU-115	61P-W095A pin HH	
		Unlock Monitor LAU-115	61P-W095A pin BB	
		Signal Ground	<input type="checkbox"/> 1 61P-W095A pin X <input type="checkbox"/> 2 61P-W095B pin C	
		L28vdc (A/A)	<input type="checkbox"/> 1 61P-W095A pin EE <input type="checkbox"/> 2 61P-W095B pin HH	
XX2XXX	Solenoid Monitor False	Solenoid Unlocked Monitor	<input type="checkbox"/> 1 61P-W095A pin FF <input type="checkbox"/> 2 61P-W095B pin u	Do table 3, WP027 10
XX1XXX	Solenoid Monitor True	Solenoid Unlocked Monitor	<input type="checkbox"/> 1 61P-W095A pin FF <input type="checkbox"/> 2 61P-W095B pin u	Do table 3, WP027 10
XXX4XX	Solenoid Monitor OFF	LAU-115 Solenoid Unlock	<input type="checkbox"/> 1 61P-W095A pin s <input type="checkbox"/> 2 61P-W095B pin A	Do table 4, WP027 10
		Solenoid Unlocked Monitor	<input type="checkbox"/> 1 61P-W095A pin FF <input type="checkbox"/> 2 61P-W095B pin u	
XXX2XX	Lock Driver ON	Launcher Lock Command	61P-W095A pin DD	
		Lock Monitor LAU-115	61P-W095A pin HH	Do <input type="checkbox"/> 1 table 1 or <input type="checkbox"/> 2 table 2A, WP027 10

Table 4. Station 2 Word 3 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XXXX1X	Stray Voltage	Unlock Monitor LAU-115	61P-W095A pin BB	Do table 7, WP027 07 Do table 7A, WP027 07
		Signal Ground	<div>1</div> 61P-W095A pin X <div>2</div> 61P-W095B pin C	
		L28vdc (A/A)	<div>1</div> 61P-W095A pin EE <div>2</div> 61P-W095B pin HH	
		115vac ϕA	<div>1</div> 61P-W095A pin LL and PP <div>2</div> 61P-W095B pins DD and LL	
		Motor Fire	61P-W095A pin A, B, and C	
		Battery and Hydraulic Activate	<div>1</div> 61P-W095A pin Z <div>2</div> 61P-W095B pin R	
		Ground	<div>1</div> 61P-W095A pin X and GG <div>2</div> 61P-W095A pin GG and 61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
XXXX4X	Power OFF	L 115vac ϕA, 400 Hz A/A	<div>1</div> 61P-W095A pin LL <div>2</div> 61P-W095B pin DD	Do <div>1</div> table 1 or <div>2</div> table 1A, WP027 19
		L 115va ϕB, 400 Hz A/A	<div>1</div> 61P-W095A pin MM <div>2</div> 61P-W095B pin EE	
		L 115vac ϕC, 400 Hz A/A	<div>1</div> 61P-W095A pin NN <div>2</div> 61P-W095B pin FF	
LEGEND				
<div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.				
<div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.				

**Table 5. Station 3 AIM-7 End To End Test Memory Inspect -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

<b>Support Equipment Required</b>  None		
<b>Materials Required</b>  None		
<b>NOTE</b>  Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) and Weapon Station 3 Power Control Schematic (A1-F18AC-740-500, WP028 00) are used to fault isolate failed signal lines identified in tables 6, 7, and 8. The items listed below are shown on these schematics.  Component locations are shown in WP007 00.  Malfunction is caused by one of the items listed below:  Aircraft Guided Missile Launcher LAU-115C/A Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Left Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) No. 5 Circuit Breaker Panel Assembly No. 7 Circuit Breaker/Relay Panel Assembly No. 8 Circuit Breaker/Relay Panel Assembly No. 11 Relay Panel Assembly		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
a. Was AIM-7 end to end test done on Aircraft Guided Missile Launcher LAU-115C/A? .....	f	b
b. Was AIM-7 end to end test done on Aircraft Wing Pylon SUU-63( )? .....	e	c
c. Did test pass? .....	f	d
d. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) .....	-	-
e. Do substeps below:		
(1) Do AIM-7 end to end test (table 1, WP027 01) using Test Equipment Hookup for Inboard Wing Pylon SUU-63( ).		
(2) Does test pass? .....	f	d
f. Do substeps below:		
(1) Using unit address 06, memory inspect address ref code ETMA+6 using table 2, WP010 19.		

**Table 5. Station 3 AIM-7 End To End Test Memory Inspect -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display 000000? . . . . .	g	h
g. Record DDI DATA readout. Interpret data using table 6 (this WP) . . . . .	-	-
h. Do substeps below:		
(1) Using unit address 06, memory inspect address ref code ETMA+8 using table 2, WP010 19.		
(2) On RDDI, does DATA readout display 000000? . . . . .	i	j
i. Record DDI DATA readout. Interpret data readout using table 7 (this WP) . . . . .	-	-
j. Do substeps below:		
(1) Using unit address 06, memory inspect address ref code ETMA+10 using table 2, WP010 19.		
(2) Record DDI DATA readout. Interpret data readout using table 8 (this WP) . . . . .	-	-

**Table 6. Station 3 Word 1 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p style="text-align: center;"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7.</p> <p>EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 5 lists the components that can cause these failures.</p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				

**Table 6. Station 3 Word 1 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X37XXX	Phase A Power	115vac $\phi$ A	61P-W095B pin DD	Do table 3, WP027 20
	115 vac Power Return	115vac $\phi$ A Return	61P-W095B pin LL	
X1XX1X	Inflight Switch ON	Inflight Switch	61P-W095A pin G	Do table 1, WP027 07
XXX42X	Altitude 2 Switch ON	Altitude 2 Switch	61P-W095A pin E	Do table 2, WP027 07
XXX525	Recycle	Recycle	61P-W095A pin y	Do table 3, WP027 07
		Altitude 2 ON	61P-W095A pin E	
		Sweep Control ON	61P-W095A pin f	
		Battery Hydraulic ON	61P-W095B pin R	
		Roll Command ON	61P-W095A pin x	
		Sweep Select ON	61P-W095A pin AA	
X12XXX	Missile Ident	AIM-7 Ident	61P-W095A pin v	Do table 4, WP027 07
		Inflight Switch ON	61P-W095A pin G	
		Altitude 1 ON	61P-W095A pin D	
X25252	Battery Armed	Stray Voltage		Do table 5A, WP027 07
		115vac $\phi$ A	61P-W095B pins DD and LL	
		Motor Fire	61P-W095A pins A, B, and C	
		Battery and Hydraulic Activate	61P-W095B pin R	
		Ground	61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
		Inflight Switch OFF	61P-W095A pin G	

**Table 6. Station 3 Word 1 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
		Altitude 1 OFF	61P-W095A pin D	
		Sweep Control OFF	61P-W095A pin f	
		Battery and Hydraulic Activate OFF	61P-W095B pin R	
		Roll Command OFF	61P-W095A pin x	
X4XXXX	Sparrow ID OFF (open)	AIM-7 Ident	61P-W095A pin v	Do table 6, WP027 07
X2XXXX	Stray Voltage	115vac $\phi$ A	61P-W095B pins DD and LL	Do table 7A, WP027 07
		Motor Fire	61P-W095A pins A, B, and C	
		Battery and Hydraulic Activate	61P-W095B pin R	
		Ground	61P-W095B pin C and 61P-W095A pin GG	
X1XXXX	Inflight Switch ON	Battery Armed	61P-W095A pin JJ	
		Inflight Switch	61P-W095A pin G	Do table 1, WP027 08
		AIM-7 Ident	61P-W095A pin v	
XX4XXX	Inflight Switch OFF	Inflight Switch	61P-W095A pin G	Do table 1, WP027 08
		AIM-7 Ident	61P-W095A pin v	
XX2XXX	Altitude Switch 1 ON	Altitude Switch 1	61P-W095A pin D	Do table 2, WP027 08
XX1XXX	Altitude Switch 1 OFF	Altitude Switch 1	61P-W095A pin D	Do table 2, WP027 08
XXX4XX	Altitude 2 Switch ON	Altitude Switch 2	61P-W095A pin E	Do table 3, WP027 08
		Launch Command	61P-W095A pins Y and u	

**Table 6. Station 3 Word 1 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XXX2XX	Altitude 2 Switch OFF	Fuze Out	61P-W095A pins b and c	Do table 2, WP027 07
		115vac $\phi$ B	61P-W095B pin EE	
		115vac $\phi$ C	61P-W095B pin FF	
		Recycle	61P-W095A pin y	
		Altitude Switch 2	61P-W095A pin E	
XXX1XX	Sweep Control ON	Sweep Control	61P-W095A pin f	Do table 4, WP027 08
XXXX4X	Sweep Control OFF	Sweep Control	61P-W095A pin f	Do table 4, WP027 08
XXXX2X	Battery and Hydraulic Activate ON	Battery and Hydraulic Activate	61P-W095B pin R	Do table 5, WP027 08
XXXX1X	Battery and Hydraulic Activate OFF	Battery and Hydraulic Activate	61P-W095B pin R	Do table 5, WP027 08
XXXXX4	Roll Command ON	Roll Command	61P-W095A pin x	Do table 6, WP027 08
XXXXX2	Roll Command OFF	Roll Command	61P-W095A pin x	Do table 6, WP027 08
XXXXX1	Sweep Select ON	Sweep Select	61P-W095A pin AA	Do table 7, WP027 08

**Table 7. Station 3 Word 2 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p align="center"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the Test/Signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 5 lists the components that can cause these failures.</p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X5252X	Recycle	English Bias Yaw ON	61P-W095A pin e	Do table 8, WP027 08
		Pulse Doppler ON	61P-W095A pin F	
		Head Aim Pitch/ True Air Speed ON	61P-W095A pin h	
		Head Aim Yaw/ Range At Launch ON	61P-W095A pin M	
		English Bias Pitch ON	61P-W095A pin j	
		Simulated Doppler ON	61P-W095A pins j and K	
12525X	Battery Armed	Sweep Select OFF	61P-W095A pin AA	Do table 9, WP027 08
		English Bias Yaw	61P-W095A pin e	
		Pulse Doppler OFF	61P-W095A pin F	
		Head Aim Pitch/ True Air Speed OFF	61P-W095A pin h	



**Table 7. Station 3 Word 2 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
		Head Aim Yaw/ Range At Launch OFF	61P-W095A pin M	
		English Bias Pitch OFF	61P-W095A pin j	
		Simulated Doppler OFF	61P-W095A pins j and K	
1XXXXX	Sweep Select OFF	Sweep Select	61P-W095A pin AA	Do table 7, WP027 08
X4XXXX	English Bias Yaw ON	English Bias Yaw	61P-W095A pin e	Do table 10, WP027 08
X2XXXX	English Bias Yaw OFF	English Bias Yaw	61P-W095A pin e	Do table 10, WP027 08
X1XXXX	Pulse Doppler ON	Pulse Doppler Command	61P-W095A pin F	Do table 1, WP027 09
XX4XXX	Pulse Doppler OFF	Pulse Doppler Command	61P-W095A pin F	Do table 1, WP027 09
XX2XXX	Head Aim Pitch/ True Air Speed ON	Head Aim Pitch/ TAS	61P-W095A pin h	Do table 2, WP027 09
XX1XXX	Head Aim Pitch/ True Air Speed OFF	Head Aim Pitch/ TAS	61P-W095A pin h	Do table 2, WP027 09
XXX4XX	Head Aim Yaw/ Range at Launch ON	Head Aim Yaw/ Range At Launch	61P-W095A pin M	Do table 3, WP027 09
XXX2XX	Head Aim Yaw/ Range at Launch OFF	Head Aim Yaw/ Range At Launch	61P-W095A pin M	Do table 3, WP027 09
XXX1XX	English Bias Pitch ON	English Bias Pitch	61P-W095A pin j	Do table 4, WP027 09
XXXX4X	English Bias Pitch OFF	English Bias Pitch	61P-W095A pin j	Do table 4, WP027 09
XXXX2X	Simulated Doppler ON	Simulated Doppler	61P-W095A pins J and K	Do table 5, WP027 09
XXXX1X	Simulated Doppler OFF	Simulated Doppler	61P-W095A pins J and K	Do table 5, WP027 09

**Table 8. Station 3 Word 3 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p align="center"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the Test/Signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 5 lists the components that can cause these failures.</p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X2X1XX	Inflight Switch	Motor Fire OFF	61P-W095A pins A, B, and C	Do table 6, WP027 09
		Stray Voltage		
		115vac $\phi$ A	61P-W095B pins DD and LL	
		Motor Fire	61P-W095A pin A, B, and C	
		Battery and Hydraulic Activate	61P-W095B pin R	
		Ground	61P-W095A pin GG and 61P-W095B pin C	
X2X1XX	Battery Armed	Battery Armed	61P-W095A pin JJ	Do table 6, WP027 09
		Motor Fire OFF	61P-W095A pins A, B, and C	
		Stray Voltage		
		115vac $\phi$ A	61P-W095B pins DD and LL	
		Motor Fire	61P-W095A pins A, B, and C	

**Table 8. Station 3 Word 3 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
		Battery and Hydraulic Activate	61P-W095B pin R	
		Ground	61P-W095A pin GG and 61P-W095B pin C	
		Battery Armed	61PW095A pin JJ	
X4XXXX	Motor Fire ON	Motor Fire	61P-W095A pins A and B	Do table 7, WP027 09
		Altitude Switch 2	61P-W095A pin E	
		Recycle	61P-W095A pin y	
X2XXXX	Motor Fire OFF	Motor Fire	61P-W095A pins A and B	Do table 8A, WP027 09
X1XXXX	Lock Driver ON	Launcher Lock Command	61P-W095A pin DD	Do table 1, WP027 10
		Lock Monitor LAU-115	61P-W095A pin HH	
		Unlock Monitor LAU-115	61P-W095A pin BB	
		Signal Ground	61P-W095B pin C	
		L28vdc (A/A)	61P-W095B pin HH	
XX4XXX	Unlock Driver ON	Launcher Unlock Command	61P-W095A pin DD	Do table 2A, WP027 10
		Lock Monitor LAU-115	61P-W095A pin HH	
		Unlock Monitor LAU-115	61P-W095A pin BB	
		Signal Ground	61P-W095B pin C	
		L28vdc (A/A)	61P-W095B pin HH	
XX2XXX	Solenoid Monitor False	Solenoid Unlocked Monitor	61P-W095B pin u	Do table 3, WP027 10

**Table 8. Station 3 Word 3 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

<b>Data Readout</b>	<b>Test</b>	<b>Signal Line</b>	<b>Launcher Connector/Pin</b>	<b>Maintenance Action</b>
XX1XXX	Solenoid Monitor True	Solenoid Un-locked Monitor	61P-W095B pin u	Do table 3, WP027 10
XXX4XX	Solenoid Monitor OFF	LAU-115 Solenoid Unlock	61P-W095B pin A	Do table 4, WP027 10
XXX2XX	Lock Driver ON	Solenoid Un-locked Monitor	61P-W095B pin u	Do table 1A, WP027 10
		Launcher Lock Command	61P-W095A pin DD	
		Lock Monitor LAU-115	61P-W095A pin HH	
		Unlock Monitor LAU-115	61P-W095A pin BB	
XXXX1X	Stray Voltage	Signal Ground	61P-W095B pin C	Do table 7A, WP027 07
		L28vdc (A/A)	61P-W095B pin HH	
		115vac $\phi$ A	61P-W095B pins DD and LL	
		Motor Fire	61P-W095A pin A, B, and C	
		Battery and Hydraulic Activate	61P-W095B pin R	
		Ground	61P-W095A pin GG and 61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
XXXX4X	Power OFF	L 115vac $\phi$ A, 400 Hz A/A	61P-W095B pins DD	Do table 3, WP027 20
		L 115vac $\phi$ B, 400 Hz A/A	61P-W095B pin EE	
		L 115vac $\phi$ C, 400 Hz A/A	61P-W095B pin FF	

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - STATION 7 AND 8 AIM-7 END TO END TEST MEMORY INSPECT

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

## 1. INTRODUCTION.

2. The memory inspect troubleshooting tables in this work package provide fault isolation when the AIM-7 end to end test failed on station 7 or 8.

3. Each AIM-7 weapon station has three memory inspect address locations. Table 1 isolates which of the three address locations failed on station 8 and table 5 for station 7.

4. Tables 2, 3 and 4 interpret the data readout recorded in table 1 for station 8. Tables 6, 7 and 8 interpret the data readout recorded in table 5 for station 7. The tables also provide the maintenance action for the related fail.

**Table 1. Station 8 AIM-7 End To End Test Memory Inspect**

<b>Support Equipment Required</b>		
None		
<b>Materials Required</b>		
None		
<b>Note</b>		
Component locations are shown in WP007 00.		
Memory inspect data used in this procedure is provided in WP010 19.		
Paragraph 1 provides WP troubleshooting description/logic.		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) and Weapon Station 8 Power Control Schematic (A1-F18AC-740-500 WP033 00) are used to fault isolate failed signal lines identified in tables 2, 3, and 4. The items listed below are shown on these schematics.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-115C/A Aircraft Wing Pylon SUU-63( ) (Right Outboard) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) No. 2 Circuit Breaker Panel Assembly 1 No. 2 Relay Panel Assembly No. 4 Circuit Breaker Panel Assembly 2 No. 5 Circuit Breaker Panel Assembly 2 No. 10 Relay Panel Assembly		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<b>Note</b>		
<p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
a. Was AIM-7 end to end test done on Aircraft Guided Missile Launcher LAU-115C/A? . . . . .	e	b
b. Was AIM-7 end to end test done on Aircraft Wing Pylon SUU-63 ( ) before testing LAU-115? . . . . .	d	c

Table 1. Station 8 AIM-7 End To End Test Memory Inspect (Continued)

Procedure	No	Yes
c. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) . . . . .	-	-
d. Do AIM-7 end to end test (table 1, WP027 01) using Test Equipment Hookup for Outboard Wing Pylon SUU-63( ). Did test check good? . . . . .	e	c
e. Do substeps below:		
(1) Using unit address 06, memory inspect address for ref code ETMA+18 (89A) or ETMA+30 (92A AND UP) (table 2, WP010 19).		
(2) On RDDI, does DATA readout display 000000? . . . . .	f	g
f. Record DDI DATA readout. Interpret data readout using table 2 this (WP) . . . . .	-	-
g. Do substeps below:		
(1) Memory inspect address for ref code ETMA+20 (89A) or ETMA+32 (92A AND UP) (table 2, WP010 19).		
(2) On RDDI, does DATA readout display 000000? . . . . .	h	i
h. Record DDI DATA readout. Interpret data readout using table 3 this (WP) . . . . .	-	-
i. Do substeps below:		
(1) Memory inspect address for ref code ETMA+22 (89A) or ETMA+34 (92A AND UP) (table 2, WP010 19).		
(2) Record DDI DATA readout. Interpret data readout using table 4 (this WP) . . . . .	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p>1 ➡ On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p>2 ➡ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 2. Station 8 Word 1 Data Readout Interpretation

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p align="center"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the Test/Signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X37XXX	Phase A Power	115vac $\phi$ A	<div>1</div> 61P-W095A pin LL <div>2</div> 61P-W095B pin DD and LL	Do <div>1</div> table 2 or <div>2</div> table 2A, WP027 20.
	115vac Power Return	115vac $\phi$ A Return	<div>1</div> 61P-W095A pin PP <div>2</div> 61P-W095B pin DD and LL	
X1XX1X	Inflight Switch ON	Inflight Switch	61P-W095A pin G	Do table 1, WP027 07.
XXX42X	Altitude 2 Switch ON	Altitude Switch 2	61P-W095A pin E	Do table 2, WP027 07.
XXX525	Recycle	Recycle	61P-W095A pin y	Do table 3, WP027 07.
		Altitude 2 ON	61P-W095A pin E	
		Sweep Control ON	61P-W095A pin f	
		Battery Hydraulic ON	<div>1</div> 61P-W095A pin Z <div>2</div> 61P-W095B pin R	
		Roll Command ON	61P-W095A pin x	
		Sweep Select ON	61P-W095A pin AA	



Table 2. Station 8 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X12XXX	Missile Ident	AIM-7 Ident	61P-W095A pin v	Do table 4, WP027 07.
X25252	Battery Armed	Inflight Switch ON	61P-W095A pin G	Do <input type="checkbox"/> 1 table 5 or <input type="checkbox"/> 2 table 5A, WP027 10.
		Altitude 1 ON	61P-W095A pin D	
		Stray Voltage		
		115vac $\phi$ A	<input type="checkbox"/> 1 61P-W095A pin LL and PP <input type="checkbox"/> 2 61P-W095B pin DD and LL	
		Motor Fire	61P-W095A pin A, B, and C	
		Battery and Hydraulic Activate	<input type="checkbox"/> 1 61P-W095A pin Z <input type="checkbox"/> 2 61P-W095B pin R	
		Ground	<input type="checkbox"/> 1 61P-W095A pin X <input type="checkbox"/> 2 61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
		Inflight Switch OFF	61P-W095A pin G	
		Altitude 1 OFF	61P-W095A pin D	
		Sweep Control OFF	61P-W095A pin f	
		Battery Hydraulic OFF	<input type="checkbox"/> 1 61P-W095A pin Z <input type="checkbox"/> 2 61P-W095B pin R	
		Roll Command OFF	61P-W095A pin x	
X4XXXX	Sparrow ID OFF (open)	AIM-7 Ident	61P-W095A pin v	Do table 6, WP027 07.
X2XXXX	Stray Voltage	115vac $\phi$ A	<input type="checkbox"/> 1 61P-W095A pin LL and PP <input type="checkbox"/> 2 61P-W095B pin DD and LL	Do <input type="checkbox"/> 1 table 6 or <input type="checkbox"/> 2 table 6A, WP027 10.

Table 2. Station 8 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X1XXXX	Inflight Switch ON	Motor Fire	61P-W095A pin A B, and C	Do table 1, WP027 08.
		Battery and Hydraulic Activate	1 61P-W095A pin Z 2 61P-W095B pin R	
		Ground	1 61P-W095A pin X and GG 2 61P-W095A pin GG and 61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
		Inflight Switch	61P-W095A pin G	
		AIM-7 Ident	61P-W095A pin v	
XX4XXX	Inflight Switch OFF	Inflight Switch	61P-W095A pin G	Do table 1, WP027 08.
		AIM-7 Ident	61P-W095A pin v	
XX2XXX	Altitude Switch 1 ON	Altitude Switch 1	61P-W095A pin D	Do table 2, WP027 08.
XX1XXX	Altitude Switch 1 OFF	Altitude Switch 1	61P-W095A pin D	Do table 2, WP027 08.
XXX4XX	Altitude 2 Switch ON	Altitude Switch 2	61P-W095A pin E	Do table 3, WP027 08.
		Launch Command	61P-W095A pin Y and u	
		Fuze Out	61P-W095A pin b and c	
		115vac $\phi$ B	1 61P-W095A pin MM 2 61P-W095B pin EE	
		115vac $\phi$ C	1 61P-W095A pin NN 2 61P-W095B pin FF	
		Recycle	61P-W095A pin y	
XXX2XX	Altitude 2 Switch OFF	Altitude Switch 2	61P-W095A pin E	Do table 2, WP027 07.

Table 2. Station 8 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XXX1XX	Sweep Control ON	Sweep Control	61P-W095A pin f	Do table 4, WP027 08.
XXXX4X	Sweep Control OFF	Sweep Control	61P-W095A pin f	Do table 4, WP027 08.
XXXX2X	Battery and Hydraulic Activate ON	Battery and Hydraulic Activate	<div>1</div> 61P-W095A pin Z <div>2</div> 61P-W095B pin R	Do table 5, WP027 08.
XXXX1X	Battery and Hydraulic Activate OFF	Battery and Hydraulic Activate	<div>1</div> 61P-W095A pin Z <div>2</div> 61P-W095B pin R	Do table 5, WP027 08.
XXXXX4	Roll Command ON	Roll Command	61P-W095A pin x	Do table 6, WP02708.
XXXXX2	Roll Command OFF	Roll Command	61P-W095A pin x	Do table 6, WP027 08.
XXXXX1	Sweep Select ON	Sweep Select	61P-W095A pin AA	Do table 7, WP027 08.
<b>LEGEND</b> <div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.				

Table 3. Station 8 Word 2 Data Readout Interpretation

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p align="center"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X5252X	Recycle	English Bias Yaw ON	61P-W095A pin e	Do table 8, WP027 08.
		Pulse Doppler ON	61P-W095A pin F	
		Head Aim Pitch/True Air Speed ON	61P-W095A pin h	
		Head Aim Yaw/Ranch At Launch ON	61P-W095A pin M	
		English Bias Pitch ON	61P-W095A pin j	
		Simulated Doppler ON	61P-W095A pin J and K	
12525X	Battery Armed	Sweep Select OFF	61P-W095A pin AA	Do table 9, WP027 08.
		English Bias Yaw OFF	61P-W095A pin e	
		Pulse Doppler OFF	61P-W095A pin F	
		Head Aim Pitch/True Air Speed OFF	61P-W095A pin h	
		Head Aim Yaw/Range At Launch OFF	61P-W095A pin M	

Table 3. Station 8 Word 2 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
		English Bias Pitch OFF	61P-W095A pin j	
		Simulated Doppler OFF	61P-W095A pin J and K	
1XXXXX	Sweep Select OFF	Sweep Select	61P-W095A pin AA	Do table 7, WP027 08.
X4XXXX	English Bias Yaw ON	English Bias Yaw	61P-W095A pin e	Do table 10, WP027 08.
X2XXXX	English Bias Yaw OFF	English Bias Yaw	61P-W095A pin e	Do table 10, WP027 08.
X1XXXX	Pulse Doppler ON	Pulse Doppler Command	61P-W095A pin F	Do table 1, WP027 09.
XX4XXX	Pulse Doppler OFF	Pulse Doppler Command	61P-W095A pin F	Do table 1, WP027 09.
XX2XXX	Head Aim Pitch/True Air Speed On	Head Aim Pitch/TAS	61P-W095A pin h	Do table 2, WP027 09.
XX1XXX	Head Aim Pitch/True Air Speed OFF	Head Aim Pitch/TAS	61P-W095A pin h	Do table 2, WP027 09.
XXX4XX	Head Aim Yaw/Range At Launch ON	Head Aim Yaw/Range at Launch	61P-W095A pin M	Do table 3, WP027 09.
XXX2XX	Head Aim Yaw/Range At Launch OFF	Head Aim Yaw/Range At Launch	61P-W095A pin M	Do table 3, WP027 09.
XXX1XX	English Bias Pitch ON	English Bias Pitch	61P-W095A pin j	Do table 4, WP027 09.
XXXX4X	English Bias Pitch OFF	English Bias Pitch	61P-W095A pin j	Do table 4, WP027 09.
XXXX2X	Simulated Doppler ON	Simulated Doppler	61P-W095A pin J and K	Do table 5, WP027 09.
XXXX1X	Simulated Doppler OFF	Simulated Doppler	61P-W095A pin J and K	Do table 5, WP027 09.
<b>LEGEND</b> <div> <div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. </div> <div> <div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292. </div>				

Table 4. Station 8 Word 3 Data Readout Interpretation

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p align="center"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. <b>EXAMPLE:</b> Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X2X1XX	Inflight Switch	Motor Fire OFF	61P-W095A pin A,	Do <input type="checkbox"/> 1 table 6 or <input type="checkbox"/> 2 table 6A, WP027 09.
		Stray Voltage		
		115vac $\phi$ A	<input type="checkbox"/> 1 61P-W095A pin LL and PP <input type="checkbox"/> 2 61P-W095B pin DD and LL	
		Motor Fire	61P-W095A pin A, B, and C	
		Battery and Hydraulic Activate	<input type="checkbox"/> 1 61P-W095A pin Z <input type="checkbox"/> 2 61P-W095B pin R	
		Ground	<input type="checkbox"/> 1 61P-W095A pin X and GG <input type="checkbox"/> 2 61P-W095A pin GG and 61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
X2X1XX	Battery Armed	Motor Fire OFF	61P-W095A pin A, B, and C	Do <input type="checkbox"/> 1 table 6 or <input type="checkbox"/> 2 table 6A, WP027 09.
		Stray Voltage		
		115vac $\phi$ A	<input type="checkbox"/> 1 61P-W095A pin LL and PP <input type="checkbox"/> 2 61P-W095B pins DD and LL	

Table 4. Station 8 Word 3 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
		Motor Fire	61P-W095A pin A, B, and C	
		Battery and Hydraulic Activate	<div>1</div> 61P-W095A pin Z <div>2</div> 61P-W095B pin R	
		Ground	<div>1</div> 61P-W095A pin X and GG <div>2</div> 61P-W095A pin GG and 61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
X4XXXX	Motor Fire ON	Motor Fire	61P-W095A pin A and B	Do table 7, WP027 09.
		Altitude Switch 2	61P-W095A pin E	
X2XXXX	Motor Fire OFF	Recycle	61P-W095A pin y	
		Motor Fire	61P-W095A pin A	Do <div>1</div> table 8 or <div>2</div> table 8A, WP027 09.
X1XXXX	Lock Driver ON	Launcher Lock Command	61P-W095A pin DD	Do <div>1</div> table 1 or <div>2</div> table 1A, WP027 10.
		Lock Monitor LAU-115	61P-W095A pin HH	
		Unlock Monitor LAU-115	61P-W095A pin BB	
		Signal Ground	<div>1</div> 61P-W095A pin X <div>2</div> 61P-W095B pin C	
		R 28vdc (A/A)	<div>1</div> 61P-W095A pin EE <div>2</div> 61P-W095B pin HH	
XX4XXX	Unlock Driver ON	Launcher Unlock Command	61P-W095A pin KK	Do <div>1</div> table 2 or <div>2</div> table 2A, WP027 10.
		Lock Monitor LAU-115	61P-W095A pin HH	
		Unlock Monitor LAU-115	61P-W095A pin BB	
		Signal Ground	<div>1</div> 61P-W095A pin X <div>2</div> 61P-W095B pin C	
		R 28vdc (A/A)	<div>1</div> 61P-W095A pin EE <div>2</div> 61P-W095B pin HH	
XX2XXX	Solenoid Monitor False	Solenoid Unlocked Monitor	<div>1</div> 61P-W095A pin FF <div>2</div> 61P-W095B pin u	Do table 3, WP027 10.

Table 4. Station 8 Word 3 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XX1XXX	Solenoid Monitor True	Solenoid Unlocked Monitor	<div>1</div> 61P-W095A pin FF <div>2</div> 61P-W095B pin u	Do table 3, WP027 10.
XXX4XX	Solenoid Monitor OFF	LAU-115 Solenoid Unlock	<div>1</div> 61P-W095A pin s <div>2</div> 61P-W095B pin A	Do table 4, WP027 10.
XXX2XX	Lock Driver ON	Solenoid Unlocked Monitor	<div>1</div> 61P-W095A pin FF <div>2</div> 61P-W095B pin u	Do <div>1</div> table 1 or <div>2</div> table 1A, WP027 10.
XXXX1X	Stray Voltage	Launcher Lock Command	61P-W095A pin DD	
		Lock Monitor LAU-115	61P-W095A pin HH	
		Unlock Monitor LAU-115	61P-W095A pin BB	
		Signal Ground	<div>1</div> 61P-W095A pin X <div>2</div> 61P-W095B pin C	
		R 28vdc (A/A)	<div>1</div> 61P-W095A pin EE <div>2</div> 61P-W095B pin HH	
		115vac $\phi$ A	<div>1</div> 61P-W095A pins LL and PP <div>2</div> 61P-W095B pins DD and LL	Do <div>1</div> table 6 or <div>2</div> table 6A, WP027 10.
		Motor Fire	61P-W095A pins A, B, and C	
		Battery and Hydraulic Activate	<div>1</div> 61P-W095A pin Z <div>2</div> 61P-W095B pin R	
		Ground	<div>1</div> 61P-W095A pins X and GG <div>2</div> 61P-W095A pin GG and 61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
XXXX4X	Power OFF	R 115vac $\phi$ A, 400 Hz A/A	<div>1</div> 61P-W095A pin LL <div>2</div> 61P-W095B pin DD	Do <div>1</div> table 2 or <div>2</div> table 2A, WP027 20.
		R 115vac $\phi$ B, 400 Hz A/A	<div>1</div> 61P-W095A pin MM <div>2</div> 61P-W095B pin EE	
		R 115vac $\phi$ C, 400 Hz A/A	<div>1</div> 61P-W095A pin NN <div>2</div> 61P-W095B pin FF	
<b>LEGEND</b> <div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.				



**Table 5. Station 7 AIM-7 End To End Test Memory Inspect -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

<b>Support Equipment Required</b>  None		
<b>Materials Required</b>  None		
<b>NOTE</b>  Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP 043 00) and Weapon Station 7 Power Control Schematic (A1-F18AC-740-500, WP032 00) are is used to fault isolate failed signal lines identified in tables 6, 7, and 8. The items listed below are shown on these schematics.  Component locations are shown in WP007 00.  Malfunction is caused by one of the items listed below:  Aircraft Guided Missile Launcher LAU-115C/A Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) No. 2 Circuit Breaker Panel Assembly No. 4 Circuit Breaker Panel Assembly No. 5 Circuit Breaker Panel Assembly No. 10 Relay Panel Assembly		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
a. Was AIM-7 end to end test done on Aircraft Guided Missile Launcher LAU-115C/A? . . . . .	e	b
b. Was AIM-7 end to end test done on Aircraft Wing Pylon SUU-63? . . . . .	d	c
c. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) . . . . .	-	-
d. Do substeps below:		
(1) Do AIM-7 end to end test (table 1, WP027 01) using Test Equipment Hookup for Outboard Wing Pylon SUU-63( ).		
(2) Did test check good? . . . . .	e	c
e. Do substeps below:		
(1) Using unit address 06, memory inspect address for ref code ETMA+24 using table 2, WP010 19.		

**Table 5. Station 7 AIM-7 End To End Test Memory Inspect -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display 000000? .....	f	g
f. Record DDI DATA readout. Interpret data readout using table 2 this (WP) .....	-	-
g. Do substeps below:		
(1) Using unit address 06, memory inspect address ref code ETMA+26 using table 2, WP010 19.		
(2) On RDDI, does DATA readout display 000000? .....	h	i
h. Record DDI DATA readout. Interpret data readout using table 3 this (WP) .....	-	-
i. Do substeps below:		
(1) Using unit address 06, memory inspect address ref code ETMA+28 using table 2, WP010 19.		
(2) Record DDI DATA readout. Interpret data readout using table 4 (this WP) .....	-	-

**Table 6. Station 7 Word 1 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p align="center"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the Test/Signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 5 lists the components that can cause these failures.</p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X37XXX	Phase A Power	115vac $\phi$ A  115vac $\phi$ A Return	61P-W095B pins DD and LL	Do table 3, WP027 20.
X1XX1X	Inflight Switch ON	Inflight Switch	61P-W095A pin G	Do table 1, WP027 07.
XXX42X	Altitude 2 Switch ON	Altitude Switch 2	61P-W095A pin E	Do table 2, WP027 07.
XXX525	Recycle	Recycle	61P-W095A pin y	Do table 3, WP027 07.
		Altitude 2 ON	61P-W095A pin E	
		Sweep Control ON	61P-W095A pin f	
		Battery and Hydraulic Activate ON	61P-W095B pin R	
		Roll Command ON	61P-W095A pin x	
		Sweep Select ON	61P-W095A pin AA	
X12XXX	Missile Ident	AIM-7 Ident	61P-W095A pin v	Do table 4, WP027 07.
		Inflight Switch ON	61P-W095A pin G	
		Altitude 1 ON	61P-W095A pin D	
X25252	Battery Armed	Stray Voltage		Do table 5A, WP027 07.

**Table 6. Station 7 Word 1 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
		115vac $\phi$ A	61P-W095B pins DD and LL	
		Motor Fire	61P-W095A pins A, B, and C	
		Battery and Hydraulic Activate	61P-W095B pin R	
		Ground	61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
		Inflight Switch OFF	61P-W095A pin G	
		Altitude 1 OFF	61P-W095A pin D	
		Sweep Control OFF	61P-W095A pin f	
		Battery and Hydraulic Activate OFF	61P-W095B pin R	
		Roll Command OFF	61P-W095A pin x	
X4XXXX	Sparrow ID OFF (open)	AIM-7 Ident	61P-W095A pin v	Do table 6, WP027 07.
X2XXXX	Stray Voltage	115vac $\phi$ A	61P-W095B pins DD and LL	Do table 6A, WP027 10.
		Motor Fire	61P-W095A pins A, B, and C	
		Battery and Hydraulic Activate	61P-W095B pin R	
		Ground	61P-W095A pin GG and 61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
X1XXXX	Inflight Switch ON	Inflight Switch	61P-W095A pin G	Do table 1, WP027 08.
		AIM-7 Ident	61P-W095A pin v	
XX4XXX	Inflight Switch OFF	Inflight Switch	61P-W095A pin G	Do table 1, WP027 08.
		AIM-7 Ident	61P-W095A pin v	

**Table 6. Station 7 Word 1 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XX2XXX	Altitude Switch 1 ON	Altitude Switch 1	61P-W095A pin D	Do table 2, WP027 08.
XX1XXX	Altitude Switch 1 OFF	Altitude Switch 1	61P-W095A pin D	Do table 2, WP027 08.
XXX4XX	Altitude 2 Switch ON	Altitude Switch 2	61P-W095A pin E	Do table 3, WP027 08.
		Launch Command	61P-W095A pin Y and u	
		Fuze Out	61P-W095A pin b and c	
		115vac $\phi$ B	61P-W095B pin EE	
		115vac $\phi$ C	61P-W095B pin FF	
XXX2XX	Altitude 2 Switch OFF	Altitude Switch 2	61P-W095A pin y	Do table 2, WP027 07.
XXX1XX	Sweep Control ON	Sweep Control	61P-W095A pin f	Do table 4, WP027 08.
XXXX4X	Sweep Control OFF	Sweep Control	61P-W095A pin f	Do table 4, WP027 08.
XXXX2X	Battery and Hydraulic Activate ON	Battery and Hydraulic Activate	61P-W095B pin R	Do table 5, WP027 08.
XXXX1X	Battery and Hydraulic Activate OFF	Battery and Hydraulic Activate	61P-W095B pin R	Do table 5, WP027 08.
XXXXX4	Roll Command ON	Roll Command	61P-W095A pin x	Do table 6, WP027 08.
XXXXX2	Roll Command OFF	Roll Command	61P-W095A pin x	Do table 6, WP027 08.
XXXXX1	Sweep Select ON	Sweep Select	61P-W095A pin AA	Do table 7, WP027 08.

**Table 7. Station 7 Word 2 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p align="center"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 5 lists the components that can cause these failures.</p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X5252X	Recycle	English Bias Yaw ON	61P-W095A pin e	Do table 8, WP027 08.
		Pulse Doppler ON	61P-W095A pin F	
		Head Aim Pitch/True Air Speed ON	61P-W095A pin h	
		Head Aim Yaw/Range At Launch ON	61P-W095A pin M	
		English Bias Pitch ON	61P-W095A pin j	
		Simulated Doppler ON	61P-W095A pin J and K	
12525X	Battery Armed	Sweep Select OFF	61P-W095A pin AA	Do table 9, WP027 08.
		English Bias Yaw OFF	61P-W095A pin e	
		Pulse Doppler OFF	61P-W095A pin F	
		Head Aim Pitch/True Air Speed OFF	61P-W095A pin h	
		Head Aim Yaw/Range At Launch OFF	61P-W095A pin M	

**Table 7. Station 7 Word 2 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
		English Bias Pitch OFF	61P-W095A pin j	
		Simulated Doppler OFF	61P-W095A pin J and K	
1XXXXX	Sweep Select OFF	Sweep Select	61P-W095A pin AA	Do table 7, WP027 08.
X4XXXX	English Bias Yaw ON	English Bias Yaw	61P-W095A pin e	Do table 10, WP027 08.
X2XXXX	English Bias Yaw OFF	English Bias Yaw	61P-W095A pin e	Do table 10, WP027 08.
X1XXXX	Pulse Doppler ON	Pulse Doppler Command	61P-W095A pin F	Do table 1, WP027 09.
XX4XXX	Pulse Doppler OFF	Pulse Doppler Command	61P-W095A pin F	Do table 1, WP027 09.
XX2XXX	Head Aim Pitch/ True Air Speed ON	Head Aim Pitch/ TAS	61P-W095A pin h	Do table 2, WP027 09.
XX1XXX	Head Aim Pitch/ True Air Speed OFF	Head Aim Pitch/ TAS	61P-W095A pin h	Do table 2, WP027 09.
XXX4XX	Head Aim Yaw/ Range At Launch ON	Head Aim Yaw/ Range At Launch	61P-W095A pin M	Do table 3, WP027 09.
XXX2XX	Head Aim Yaw/ Range At Launch OFF	Head Aim Yaw/ Range At Launch	61P-W095A pin M	Do table 3, WP027 09.
XXX1XX	English Bias Pitch ON	English Bias Pitch	61P-W095A pin j	Do table 4, WP027 09.
XXXX4X	English Bias Pitch OFF	English Bias Pitch	61P-W095A pin j	Do table 4, WP027 09.
XXXX2X	Simulated Doppler ON	Simulated Doppler	61P-W095A pin J and K	Do table 5, WP027 09.
XXXX1X	Simulated Doppler OFF	Simulated Doppler	61P-W095A pin J and K	Do table 5, WP027 09.

**Table 8. Station 7 Word 3 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p align="center"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 5 lists the components that can cause these failures.</p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X2X1XX	Inflight Switch	Motor Fire OFF	61P-W095A pin A, B, and C	Do table 6A, WP027 09.
		Stray Voltage		
		115vac $\phi$ A	61P-W095B pins DD and LL	
		Motor Fire	61P-W095A pins A, B, and C	
		Battery and Hydraulic Activate	61P-W095B pin R	
		Ground	61P-W095A pin GG and 61P-W095B pin C	Do table 6A, WP027 09.
		Battery Armed	61P-W095A pin JJ	
X2X1XX	Battery Armed	Motor Fire OFF	61P-W095A pins A, B, and C	
		Stray Voltage		
		115vac $\phi$ A	61P-W095B pins DD and LL	
		Motor Fire	61P-W095A pin A, B, and C	
		Battery and Hydraulic Activate	61P-W095B pin R	



**Table 8. Station 7 Word 3 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
		Ground	61P-W095A pin GG and 61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
X4XXXX	Motor Fire ON	Motor Fire	61P-W095A pins A and B	Do table 7, WP027 09.
		Altitude Switch 2	61P-W095A pin E	
		Recycle	61P-W095A pin y	
X2XXXX	Motor Fire OFF	Motor Fire	61P-W095A pins A and B	Do table 8A, WP027 09.
X1XXXX	Lock Driver ON	Launcher Lock Command	61P-W095A pin DD	Do table 1A, WP027 10.
		Lock Monitor LAU-115	61P-W095A pin HH	
		Unlock Monitor LAU-115	61P-W095A pin BB	
		Signal Ground	61P-W095B pin C	
		R 28vdc (A/A)	61P-W095B pin HH	
XX4XXX	Unlock Driver ON	Launcher Unlock Command	61P-W095A pin KK	Do table 2A, WP027 10.
		Lock Monitor LAU-115	61P-W095A pin HH	
		Unlock Monitor LAU-115	61P-W095A pin BB	
		Signal Ground	61P-W095B pin C	
		R 28vdc (A/A)	61P-W095B pin HH	
XX2XXX	Solenoid Monitor False	Solenoid Unlocked Monitor	61P-W095B pin u	Do table 3, WP027 10.
XX1XXX	Solenoid Monitor True	Solenoid Unlocked Monitor	61P-W095B pin u	Do table 3, WP027 10.
XXX4XX	Solenoid Monitor OFF	LAU-115 Solenoid Unlock	61P-W095B pin A	Do table 4, WP027 10.
		Solenoid Unlocked Monitor	61P-W095B pin u	

**Table 8. Station 7 Word 3 Data Readout Interpretation -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

<b>Data Readout</b>	<b>Test</b>	<b>Signal Line</b>	<b>Launcher Connector/Pin</b>	<b>Maintenance Action</b>
XXX2XX	Lock Driver ON	Launcher Lock Command	61P-W095A pin DD	Do table 1A, WP027 10.
		Lock Monitor LAU-115	61P-W095A pin HH	
		Unlock Monitor LAU-115	61P-W095A pin BB	
		Signal Ground	61P-W095B pin C	
XXXX1X	Stray Voltage	R 28vdc (A/A)	61P-W095B pin HH	Do table 6A, WP027 10.
		115vac $\phi$ A	61P-W095B pin DD and LL	
		Motor Fire	61P-W095A pins A, B, and C	
		Battery and Hydraulic Activate	61P-W095B pin R	
		Ground	61P-W095A pin GG and 61P-W095B pin C	
		Battery Armed	61P-W095A pin JJ	
XXXX4X	Power OFF	R 115vac $\phi$ A, 400 Hz A/A	61P-W095B pin DD	Do table 3, WP027 20.
		R 115vac $\phi$ B, 400 Hz A/A	61P-W095B pin EE	
		R 115vac $\phi$ C, 400 Hz A/A	61P-W095B pin FF	

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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**TROUBLESHOOTING - STATION 4 AIM-7 END TO END TEST MEMORY INSPECT**  
**SUSPENSION AND RELEASE MECHANISMS**

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**Reference Material**

Weapon Control Systems ..... A1-F18AC-740-200  
Memory Inspect Data ..... WP010 19

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**Record of Applicable Technical Directives**

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**1. INTRODUCTION.**

2. The memory inspect troubleshooting tables in this work package provide fault isolation when the AIM-7 end to end test failed on station 4.

3. Each AIM-7 weapon station has three memory inspect address locations. Table 1 isolates which of the three address locations failed.

4. Tables 2, 3 and 4 interpret the data readout recorded in table 1. The tables also provide the maintenance action for the related fail.

**Table 1. Station 4 AIM-7 End To End Test Memory Inspect**

<b>Support Equipment Required</b>  None		
<b>Materials Required</b>  None		
<b>NOTE</b>  Component locations are shown in WP007 00.  Memory inspect data used in this procedure is provided in WP010 09.  Paragraph 1 provides WP troubleshooting description/logic.  Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) and Weapon Station 4 Power Control Schematic (A1-F18AC-740-500, WP029 00) are used to fault isolate failed signal lines identified in tables 2, 3 and 4. The items listed below are shown on these schematics.  Malfunction is caused by one of the items listed below:  <div style="margin-left: 40px;">           Aircraft Guided Missile Launcher LAU-116( )            Aircraft Wiring            Armament Computer CP-1342/AYQ-9(V)            Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)            No. 7 Circuit Breaker/Relay Panel Assembly  <input type="checkbox"/> No. 8 Circuit Breaker/Relay Panel Assembly  <input type="checkbox"/> No. 11 Relay Panel Assembly         </div>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<b>NOTE</b>  WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.  WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.		
a. Do substeps below:  <div style="margin-left: 40px;">           (1) Using unit address 06, memory inspect address for ref code ETMA+6 (89A) or ETMA+12 (92A AND UP) (table 2, WP010 19).             (2) On RDDI, does DATA readout display 000000? .....         </div>	b	c
b. Record DDI DATA readout. Interpret data readout using table 2 this (WP) .....	-	-

**Table 1. Station 4 AIM-7 End To End Test Memory Inspect (Continued)**

Procedure	No	Yes
c. Do substeps below:		
(1) Memory inspect address for ref code ETMA+8 (89A) or ETMA+14 (92A AND UP) (table 2, WP010 19).		
(2) On RDDI, does DATA readout display 000000? .....	d	e
d. Record DDI DATA readout. Interpret data readout using table 3 this (WP) .....	-	-
e. Do substeps below:		
(1) Memory inspect address for ref code ETMA+10 (89A) or ETMA+16 (92A AND UP) (table 2, WP010 19).		
(2) Record DDI DATA readout. Interpret data readout using table 4 (this WP) .....	-	-
<b>LEGEND</b> <input type="checkbox"/> 1 ➡ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 2. Station 4 Word 1 Data Readout Interpretation**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<b>NOTE</b>  When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the Test/Signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.  Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.  WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.  WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.				
X37XXX	Phase A Power	115vac $\phi$ A	52P-P064B <input type="checkbox"/> 1 ➡ pin e or <input type="checkbox"/> 2 ➡ pin FF	Do <input type="checkbox"/> 1 ➡ table 2 or <input type="checkbox"/> 2 ➡ table 2A, WP027 19.

Table 2. Station 4 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X1XX1X	115vac Power Return	115vac $\phi$ A Return	52P-P064B 1 pin c or 2 pin LL	Do table 1, WP027 11
	Inflight Switch ON	Inflight Switch	52P-P064B 1 pin b or 2 pin r	
	Altitude 2 Switch ON	Altitude Switch 2	52P-P064B 1 pin k or 2 pin s	
XXX42X	Altitude 2 Switch ON	Altitude Switch 2	52P-P064B 1 pin k or 2 pin s	Do table 2, WP027 11
XXX525	Recycle	Recycle	52P-P064B 1 pin T or 2 pin q	Do table 3, WP027 11
		Altitude 2 ON	52P-P064B 1 pin k or 2 pin s	
		Sweep Control ON	52P-P064B 1 pin F or 2 pin L	
		Battery Hydraulic ON	52P-P064B 1 pin U or 2 pin b	
		Roll Command ON	52P-P064B 1 pin E or 2 pin K	
		Sweep Select ON	52P-P064B 1 pin S or 2 pin p	
		AIM-7 Ident	52P-P064B 1 pin h or 2 pin u	
		Inflight Switch ON	52P-P064B 1 pin b or 2 pin r	
X12XXX	Missile Ident	Altitude 1 ON	52P-P064B 1 pin m or 2 pin t	Do table 4, WP027 11
X25252	Battery Armed	Stray Voltage		Do 1 table 5 or 2 table 5A, WP027 11.

Table 2. Station 4 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
		115vac $\phi$ A	52P-P064B 1 pin e and c or 2 pins FF and LL	
		Motor Fire	52P-P064A pin A, B, and C	
		Battery and Hydraulic Activate	52P-P064B 1 pin U or 2 pin b	
		Ground	52P-P064B 1 pin g or 2 pin c	
		Battery Armed	52P-P064B 1 pin r or 2 pin d	
		Eject No. 1	52P-P064A pin D	
		Eject No. 2	52P-P064A pin G	
		Inflight Switch OFF	52P-P064B 1 pin b or 2 pin r	
		Altitude 1 OFF	52P-P064B 1 pin m or 2 pin t	
		Sweep Control OFF	52P-P064B 1 pin F or 2 pin L	
		Battery Hydraulic OFF	52P-P064B 1 pin U or 2 pin b	
		Roll Command OFF	52P-P064B 1 pin E or 2 pin K	
X4XXXX	Sparrow ID OFF (open)	AIM-7 Ident	52P-P064B 1 pin h or 2 pin u	Do table 6, WP027 07.
X2XXXX	Stray Voltage	115vac $\phi$ A	52P-P064B 1 pin e and c or 2 pins FF and LL	Do 1 table 1 or 2 table 1A, WP027 12.
		Motor Fire	52P-P064A pin A, B, and C	

Table 2. Station 4 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X1XXXX	Inflight Switch ON	Battery and Hydraulic Activate	52P-P064B 1 pin U or 2 pin b	Do table 2, WP027 12.
		Ground	52P-P064B 1 pin g or 2 pin c	
		Battery Armed	52P-P064B 1 pin r or 2 pin d	
		Eject No. 1	52P-P064A pin D	
		Eject No. 2	52P-P064A pin G	
		Inflight Switch	52P-P064B 1 pin b or 2 pin r	
		AIM-7 Ident	52P-P064B 1 pin h or 2 pin u	
XX4XXX	Inflight Switch OFF	Inflight Switch	52P-P064B 1 pin b or 2 pin r	Do table 2, WP027 12.
		AIM-7 Ident	52P-P064B 1 pin h or 2 pin u	
XX2XXX	Altitude Switch 1 ON	Altitude Switch 1	52P-P064B 1 pin m or 2 pin t	Do table 3, WP027 12.
XX1XXX	Altitude Switch 1 OFF	Altitude Switch 1	52P-P064B 1 pin m or 2 pin t	Do table 3, WP027 12.
XXX4XX	Altitude 2 Switch ON	Altitude Switch 2	52P-P064B 1 pin k or 2 pin s	Do table 4, WP027 12.
		Launch Command	52P-P064B 1 pin p and q or 2 pins c and x	
		Fuze Out	52P-P064B 1 pin N and M or 2 pins w and GG	
		115vac $\phi$ B	52P-P064B 1 pin L or 2 pin EE	



Table 2. Station 4 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XXX2XX	Altitude 2 Switch OFF	115vac $\phi$ C  Recycle  Altitude Switch 2	52P-P064B 1 pin K or 2 pin DD  52P-P064B 1 pin T or 2 pin q  52P-P064B 1 pin k or 2 pin s	Do table 2, WP027 11.
XXX1XX	Sweep Control ON	Sweep Control	52P-P064B 1 pin F or 2 pin L	Do table 5, WP027 12.
XXXX4X	Sweep Control OFF	Sweep Control	52P-P064B 1 pin F or 2 pin L	Do table 5, WP027 12.
XXXX2X	Battery and Hydraulic Activate ON	Battery and Hydraulic Activate	52P-P064B 1 pin U or 2 pin b	Do table 6, WP027 12.
XXXX1X	Battery and Hydraulic Activate OFF	Battery and Hydraulic Activate	52P-P064B 1 pin U or 2 pin b	Do table 6, WP027 12.
XXXXX4	Roll Command ON	Roll Command	52P-P064B 1 pin E or 2 pin K	Do table 7, WP027 12.
XXXXX2	Roll Command OFF	Roll Command	52P-P064B 1 pin E or 2 pin K	Do table 7, WP027 12.
XXXXX1	Sweep Select ON	Sweep Select	52P-P064B 1 pin S or 2 pin p	Do table 8, WP027 12.
<b>LEGEND</b> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.				

Table 3. Station 4 Word 2 Data Readout Interpretation

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p align="center"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X5252X	Recycle	English Bias Yaw ON	52P-P064B 1 pin C or 2 pin H	Do table 1, WP027 13
		Pulse Doppler ON	52P-P064B 1 pin s or 2 pin e	
		Head Aim Pitch/ True Air Speed ON	52P-P064B 1 pin A or 2 pin KK	
		Head Aim Yaw/ Range At Launch ON	52P-P064B 1 pin B or 2 pin G	
		English Bias Pitch ON	52P-P064B 1 pin D or 2 pin J	
		Simulated Doppler ON	52P-P064B 1 pin P and R or 2 pin M and N	
12525X	Battery Armed	Sweep Select OFF	52P-P064B 1 pin S or 2 pin p	Do table 2, WP027 13.
		English Bias Yaw OFF	52P-P064B 1 pin C or 2 pin H	

Table 3. Station 4 Word 2 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
1XXXXX	Sweep Select OFF	Pulse Doppler OFF	52P-P064B 1 pin s or 2 pin e	Do table 8, WP027 12.
		Head Aim Pitch/ True Air Speed OFF	52P-P064B 1 pin A or 2 pin KK	
		Head Aim Yaw/ Range At Launch OFF	52P-P064B 1 pin B or 2 pin G	
		English Bias Pitch OFF	52P-P064B 1 pin D or 2 pin J	
		Simulated Doppler OFF	52P-P064B 1 pin P and R or 2 pin M and N	
		Sweep Select	52P-P064B 1 pin S or 2 pin p	
X4XXXX	English Bias Yaw ON	English Bias Yaw	52P-P064B 1 pin C or 2 pin H	Do table 3, WP027 13.
X2XXXX	English Bias Yaw OFF	English Bias Yaw	52P-P064B 1 pin C or 2 pin H	Do table 3, WP027 13.
X1XXXX	Pulse Doppler ON	Pulse Doppler Command	52P-P064B 1 pin s or 2 pin e	Do table 4, WP027 13.
XX4XXX	Pulse Doppler OFF	Pulse Doppler Command	52P-P064B 1 pin s or 2 pin e	Do table 4, WP027 13.
XX2XXX	Head Aim Pitch/ True Air Speed ON	Head Aim Pitch/ TAS	52P-P064B 1 pin A or 2 pin KK	Do table 5, WP027 13.
XX1XXX	Head Aim Pitch/ True Air Speed OFF	Head Aim Pitch/ TAS	52P-P064B 1 pin A or 2 pin KK	Do table 5, WP027 13.
XXX4XX	Head Aim Yaw/ Range At Launch ON	Head Aim Yaw/ Range At Launch	52P-P064B 1 pin B or 2 pin G	Do table 6, WP027 13.

Table 3. Station 4 Word 2 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XXX2XX	Head Aim Yaw/ Range At Launch OFF	Head Aim Yaw/ Range At Launch	52P-P064B 1 pin B or 2 pin G	Do table 6, WP027 13.
XXX1XX	English Bias Pitch ON	English Bias Pitch	52P-P064B 1 pin D or 2 pin J	Do table 7, WP027 13.
XXXX4X	English Bias Pitch OFF	English Bias Pitch	52P-P064B 1 pin D or 2 pin J	Do table 7, WP027 13.
XXXX2X	Simulated Doppler ON	Simulated Doppler	52P-P064B 1 pin P and R or 2 pins M and N	Do table 8, WP027 13.
XXXX1X	Simulated Doppler OFF	Simulated Doppler	52P-P064B 1 pin P and R or 2 pins M and N	Do table 8, WP027 13.
XXXXX4	EJECT 1 ON	Eject Command 1	52P-P064A pin D	Do table 9, WP027 13.
XXXXX2	EJECT 1 OFF	Eject Command 1	52P-P064A pin D	Do table 9, WP027 13.
XXXXX1	EJECT 2 ON	Eject Command 2	52P-P064A pin G	Do table 10, WP027 13.
<p style="text-align: center;"><b>LEGEND</b></p> <p>1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p>2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>				

Table 4. Station 4 Word 3 Data Readout Interpretation

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p align="center"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X2X1XX	Inflight Switch	Motor Fire OFF  Stray Voltage  115vac $\phi$ A  Motor Fire  Battery and Hydraulic Activate  Ground  Battery Armed  Eject No. 1  Eject No. 2	52P-P064A pin A, B, and C  52P-P064A 1 pin e and c or 2 pins FF and LL  52P-P064B 1 pin e and c or 2 pins FF and LL  52P-P064A pin A, B, and C  52P-P064B 1 pin U or 2 pin b  52P-P064B 1 pin g or 2 pin c  52P-P064B 1 pin r or 2 pin d  52P-P064A pin D  52P-P064A pin G	Do 1 table 1 or 2 table 1A, WP027 14.

Table 4. Station 4 Word 3 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X2X1XX	Battery Armed	Motor Fire OFF	52P-P064A pin A, B, and C	Do <input type="checkbox"/> 1 table 1 or <input type="checkbox"/> 2 table 1A, WP027 14.
		Stray Voltage		
		115vac $\phi$ A	52P-P064B <input type="checkbox"/> 1 pin e and c or <input type="checkbox"/> 2 pins FF and LL	
		Motor Fire	52P-P064A pin A, B, and C	
		Battery and Hydraulic Activate	52P-P064B <input type="checkbox"/> 1 pin U or <input type="checkbox"/> 2 pin b	
		Ground	52P-P064B <input type="checkbox"/> 1 pin g or <input type="checkbox"/> 2 pin C	
		Battery Armed	52P-P064B <input type="checkbox"/> 1 pin r or <input type="checkbox"/> 2 pin d	
		Eject No. 1	52P-P064A pin D	
		Eject No. 2	52P-P064A pin G	
1XXXXX	EJECT 2 OFF	Eject Command 2	52P-P064A pin G	
X4XXXX	Motor Fire ON	Motor Fire	52P-P064A pin A, B, and C	Do table 2, WP027 14.
		Altitude Switch 2	52P-P064B <input type="checkbox"/> 1 pin k or <input type="checkbox"/> 2 pin s	
		Recycle	52P-P064B <input type="checkbox"/> 1 pin T or <input type="checkbox"/> 2 pin q	
X2XXXX	Motor Fire OFF	Motor Fire	52P-P064A pin A, B, and C	Do table 3, WP027 14.
X1XXXX	Lock Driver ON	Launcher Lock Command	52P-P064B pin BB	Do table 4, WP027 14.
		Lock Monitor LAU-116	52P-P064B <input type="checkbox"/> 1 pin w or <input type="checkbox"/> 2 pin HH	

Table 4. Station 4 Word 3 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XX4XXX	Unlock Driver ON	Unlock Monitor LAU-116	52P-P064B 1 pin z or 2 pin E	Do table 5, WP027 14.
		Signal Ground	52P-P064B 1 pin g or 2 pin C	
		L 28vdc Weapon Power	52P-P064B 1 pin cc or 2 pin D	
		Launcher Unlock Command	52P-P064B 1 pin AA or 2 pin F	
		Lock Monitor LAU-116	52P-P064B 1 pin w or 2 pin HH	
		Unlock Monitor LAU-116	52P-P064B 1 pin z or 2 pin E	
XXX2XX	Lock Driver ON	Signal Ground	52P-P064B 1 pin g or 2 pin C	Do table 4, WP027 14.
		L 28vdc Weapon Power	52P-P064B 1 pin cc or 2 pin D	
		Launcher Lock Command	52P-P064B pin BB	
		Lock Monitor LAU-116	52P-P064B 1 pin w or 2 pin HH	
		Unlock Monitor LAU-116	52P-P064B 1 pin z or 2 pin E	
		Signal Ground	52P-P064B 1 pin g or 2 pin C	
XXXX1X	Stray Voltage	115vac $\phi$ A	52P-P064B 1 pin e and c or 2 pins FF and LL	Do 1 table 1 or 2 table 1A, WP027 12.

Table 4. Station 4 Word 3 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
		Motor Fire	52P-P064A pin A, B, and C	
		Battery and Hydraulic Activate	52P-P064B 1 pin U or 2 pin b	
		Ground	52P-P064B 1 pin g or 2 pin C	
		Battery Armed	52P-P064B 1 pin r or 2 pin d	
		Eject No. 1	52P-P064A pin D	
		Eject No. 2	52P-P064A pin G	
XXXX4X	Power OFF	L 115vac $\phi$ A Weapon Power	52P-P064B 1 pin e 2 pin FF	Do 1 table 2 or 2 table 2A, WP027 19.
		L 115vac $\phi$ B Weapon Power	52P-P064B 1 pin L or 2 pin EE	
		L 115vac $\phi$ C Weapon Power	52P-P064B 1 pin K or 2 pin DD	
<p style="text-align: center;"><b>LEGEND</b></p> <p>1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p>2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>				



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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**TROUBLESHOOTING - STATION 6 AIM-7 END TO END TEST MEMORY INSPECT**  
**SUSPENSION AND RELEASE MECHANISMS**

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**Reference Material**

Weapon Control Systems ..... A1-F18AC-740-200  
Memory Inspect Data ..... WP010 19

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**Record of Applicable Technical Directives**

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**1. INTRODUCTION.**

2. The memory inspect troubleshooting tables in this work package provide fault isolation when the AIM-7 end to end test failed on station 6.

3. Each AIM-7 weapon station has three memory inspect address locations. Table 1 isolates which of the three address locations failed.

4. Tables 2, 3, and 4 interpret the data readout recorded in table 1. The tables also provide the maintenance action for the related fail.

**Table 1. Station 6 AIM-7 End To End Test Memory Inspect**

<b>Support Equipment Required</b>  None		
<b>Materials Required</b>  None		
<b>NOTE</b>  Component locations are shown in WP007 00.  Memory inspect data used in this procedure is provided in WP010 19.  Paragraph 1 provides WP troubleshooting description/logic.  Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) and Weapon Station 6 Power Control Schematic (A1-F18AC-740-500, WP031 00) are used to fault isolate failed signal lines identified in tables 2, 3 and 4. The items listed below are shown on these schematics.		
Malfunction is caused by one of the items listed below: <div style="margin-left: 40px;">           Aircraft Guided Missile Launcher LAU-116( )            Aircraft Wiring            Armament Computer CP-1342/AYQ-9(V)            No. 2 Circuit Breaker Panel Assembly  <input type="checkbox"/> No. 2 Relay Panel Assembly            No. 4 Circuit Breaker Panel Assembly  <input type="checkbox"/> No. 5 Circuit Breaker Panel Assembly  <input type="checkbox"/> No. 10 Relay Panel Assembly            Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)         </div>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<b>NOTE</b>  WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.  WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.		
a. Do substeps below: <div style="margin-left: 40px;">           (1) Using unit address 06, memory inspect address for ref code ETMA+12 (89A) or ETMA+18 (92A AND UP) (table 2, WP010 19).             (2) On RDDI, does DATA readout display 000000? .....         </div>	b	c

**Table 1. Station 6 AIM-7 End To End Test Memory Inspect (Continued)**

Procedure	No	Yes
b. Record DDI DATA readout. Interpret data readout using table 2 (this WP) . . . . .	-	-
c. Do substeps below:		
(1) Memory inspect address for ref code ETMA+14 (89A) or ETMA+20 (92A AND UP) (table 2, WP010 19).		
(2) On RDDI, does DATA readout display 000000? . . . . .	d	e
d. Record DDI DATA readout. Interpret data readout using table 3 (this WP) . . . . .	-	-
e. Do substeps below:		
(1) Memory inspect address for ref code ETMA+16 (89A) or ETMA+22 (92A AND UP) (table 2, WP010 19).		
(2) Record DDI DATA readout. Interpret data readout using table 4 (this WP) . . . . .	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p>1 ➡ On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p>2 ➡ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

**Table 2. Station 6 Word 1 Data Readout Interpretation**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p style="text-align: center;"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the Test/Signal Line descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				

Table 2. Station 6 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X37XXX	Phase A Power	115vac $\phi$ A	52P-R066B 1 pin e or 2 pin FF and LL	Do 1 table 2 or 2 table 2A, WP027 19.
	115vac Power Return	115vac $\phi$ A Return	52P-R066B 1 pin e or 2 pin FF and LL	
X1XX1X	Inflight Switch ON	Inflight Switch	52P-R066B pin b	Do table 1, WP027 15.
XXX42X	Altitude 2 Switch ON	Altitude Switch 2	52P-R066B 1 pin k or 2 pin s	Do table 2, WP027 15.
XXX525	Recycle	Recycle	52P-R066B 1 pin T or 2 pin q	Do table 3, WP027 15.
		Altitude 2 ON	52P-R066B 1 pin k or 2 pin s	
		Sweep Control ON	52P-R066B 1 pin F or 2 pin L	
		Battery Hydraulic ON	52P-R066B 1 pin U or 2 pin b	
		Roll Command ON	52P-R066B 1 pin E or 2 pin K	
		Sweep Select ON	52P-R066B 1 pin S or 2 pin p	
		AIM-7 Ident	52P-R066B 1 pin h or 2 pin u	
		Inflight Switch ON	52P-R066B 1 pin b or 2 pin r	
X12XXX	Missile Ident	Altitude 1 ON	52P-R066B 1 pin m or 2 pin t	Do table 4, WP027 15.

Table 2. Station 6 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X25252	Battery Armed	Stray Voltage		Do table 5 or 5A, WP027 15.
		115vac $\phi$ A	52P-R066B 1 pin e and c or 2 pins FF and LL	
		Motor Fire	52P-R066A pin A, B, and C	
		Battery and Hydraulic Activate	52P-R066B 1 pin U or 2 pin b	
		Ground	52P-R066B 1 pin g or 2 pin e	
		Battery Armed	52P-R066B 1 pin r or 2 pin d	
		Eject No. 1	52P-R066A pin D	
		Eject No. 2	52P-R066A pin G	
		Inflight Switch OFF	52P-R066B 1 pin b or 2 pin r	
		Altitude 1 OFF	52P-R066B 1 pin m or 2 pin t	
		Sweep Control OFF	52P-R066B 1 pin F or 2 pin L	
		Battery Hydraulic OFF	52P-R066B 1 pin U or 2 pin b	
		Roll Command OFF	52P-R066B 1 pin E or 2 pin K	
X4XXXX	Sparrow ID OFF (open)	AIM-7 Ident	52P-R066B 1 pin h or 2 pin u	Do table 6, WP027 07.
X2XXXX	Stray Voltage	115vac $\phi$ A	52P-R066B 1 pin e and c or 2 pins FF and LL	Do table 1, WP027 16.
		Motor Fire	52P-R066A pin A, B, and C	

Table 2. Station 6 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X1XXXX	Inflight Switch ON	Battery and Hydraulic Activate	52P-R066B 1 pin U or 2 pin b	Do table 2, WP027 16.
		Ground	52P-R066B 1 pin g or 2 pin c	
		Battery Armed	52P-R066B 1 pin r or 2 pin d	
		Eject No. 1	52P-R066A pin D	
		Eject No. 2	52P-R066A pin G	
		Inflight Switch	52P-R066B 1 pin b or 2 pin r	
		AIM-7 Ident	52P-R066B 1 pin h or 2 pin u	
XX4XXX	Inflight Switch OFF	Inflight Switch	52P-R066B 1 pin b or 2 pin r	Do table 2, WP027 16.
		AIM-7 Ident	52P-R066B 1 pin h or 2 pin u	
XX2XXX	Altitude Switch 1 ON	Altitude Switch 1	52P-R066B 1 pin m or 2 pin t	Do table 3, WP027 16.
XX1XXX	Altitude Switch 1 OFF	Altitude Switch 1	52P-R066B 1 pin m or 2 pin t	Do table 3, WP027 16.
XXX4XX	Altitude 2 Switch ON	Altitude Switch 2	52P-R066B 1 pin k or 2 pin s	Do table 4, WP027 16.
		Launch Command	52P-R066B 1 pin p and q or 2 pin c and x	
		Fuze Out	52P-R066B 1 pin N and M or 2 pins w and GG	
		115vac $\phi$ B	52P-R066B 1 pin L or 2 pin EE	

Table 2. Station 6 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XXX2XX	Altitude 2 Switch OFF	115vac $\phi$ C  Recycle  Altitude Switch 2	52P-R066B 1 pin K or 2 pin DD  52P-R066B 1 pin T or 2 pin q  52P-R066B 1 pin k or 2 pin s	Do table 2, WP027 15.
XXX1XX	Sweep Control ON	Sweep Control	52P-R066B 1 pin F or 2 pin L	Do table 5, WP027 16.
XXXX4X	Sweep Control OFF	Sweep Control	52P-R066B 1 pin F or 2 pin L	Do table 5, WP027 16.
XXXX2X	Battery and Hydraulic Activate On	Battery and Hydraulic Activate	52P-R066B 1 pin U or 2 pin b	Do table 6, WP027 16.
XXXX1X	Battery and Hydraulic Activate OFF	Battery and Hydraulic Activate	52P-R066B 1 pin U or 2 pin b	Do table 6, WP027 16.
XXXXX4	Roll Command ON	Roll Command	52P-R066B 1 pin E or 2 pin K	Do table 7, WP027 16.
XXXXX2	Roll Command OFF	Roll Command	52P-R066B 1 pin E or 2 pin K	Do table 7, WP027 16.
XXXXX1	Sweep Select ON	Sweep Select	52P-R066B 1 pin S or 2 pin p	Do table 8, WP027 16.
<b>LEGEND</b> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.				

Table 3. Station 6 Word 2 Data Readout Interpretation

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p style="text-align: center;"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines Using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X5252X	Recycle	English Bias Yaw ON	52P-R066B 1 pin C or 2 pin H	Do table 1, WP027 17.
		Pulse Doppler ON	52P-R066B 1 pin s or 2 pin e	
		Head Aim Pitch/ True Air Speed ON	52P-R066B 1 pin A or 2 pin kk	
		Head Aim Yaw/ Range At Launch ON	52P-R066B 1 pin B or 2 pin G	
		English Bias Pitch ON	52P-R066B 1 pin D or 2 pin J	
		Simulated Doppler ON	52P-R066B 1 pin P and R or 2 pins M and N	Do table 2, WP027 17.
12525X	Battery Armed	Sweep Select OFF	52P-R066B 1 pin S or 2 pin p	
		English Bias Yaw OFF	52P-R066B 1 pin C or 2 pin H	



Table 3. Station 6 Word 2 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
1XXXXX	Sweep Select OFF	Pulse Doppler OFF	52P-R066B 1 pin s or 2 pin e	Do table 8, WP027 16.
		Head Aim Pitch/ True Air Speed OFF	52P-R066B 1 pin A or 2 pin KK	
		Head Aim Yaw/ Range At Launch OFF	52P-R066B 1 pin B or 2 pin G	
		English Bias Pitch OFF	52P-R066B 1 pin D or 2 pin J	
		Simulated Doppler OFF	52P-R066B 1 pin P and R or 2 pins M and N	
		Sweep Select	52P-R066B 1 pin S or 2 pin p	
X4XXXX	English Bias Yaw ON	English Bias Yaw	52P-R066B 1 pin C or 2 pin H	Do table 3, WP027 17.
X2XXXX	English Bias Yaw OFF	English Bias Yaw	52P-R066B 1 pin C or 2 pin H	Do table 3, WP027 17.
X1XXXX	Pulse Doppler ON	Pulse Doppler Command	52P-R066B 1 pin s or 2 pin e	Do table 4, WP027 17.
XX4XXX	Pulse Doppler OFF	Pulse Doppler Command	52P-R066B 1 pin s or 2 pin e	Do table 4, WP027 17.
XX2XXX	Head Aim Pitch/ True Air Speed ON	Head Aim Pitch/ TAS	52P-R066B 1 pin A or 2 pin KK	Do table 5, WP027 17.
XX1XXX	Head Aim Pitch/ True Air Speed OFF	Head Aim Pitch/ TAS	52P-R066B 1 pin A or 2 pin KK	Do table 5, WP027 17.
XXX4XX	Head Aim Yaw/ Range At Launch ON	Head Aim Yaw/ Range At Launch	52P-R066B 1 pin B or 2 pin G	Do table 6, WP027 17.

Table 3. Station 6 Word 2 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XXX2XX	Head Aim Yaw/ Range At Launch OFF	Head Aim Yaw/ Range At Launch	52P-R066B 1 pin B or 2 pin G	Do table 6, WP027 17.
XXX1XX	English Bias Pitch ON	English Bias Pitch	52P-R066B 1 pin D or 2 pin J	Do table 7, WP027 17.
XXXX4X	English Bias Pitch OFF	English Bias Pitch	52P-R066B 1 pin D or 2 pin J	Do table 7, WP027 17.
XXXX2X	Simulated Doppler ON	Simulated Doppler	52P-R066B 1 pin P and R or 2 pins M and N	Do table 8, WP027 17.
XXXX1X	Simulated Doppler OFF	Simulated Doppler	52P-R066B 1 pin P and R or 2 pins M and N	Do table 8, WP027 17.
XXXXX4	EJECT 1 ON	Eject Command 1	52P-R066A pin D	Do table 9, WP027 17.
XXXXX2	EJECT 1 OFF	Eject Command 1	52P-R066A pin D	Do table 9, WP027 17.
XXXXX1	EJECT 2 ON	Eject Command 2	52P-R066A pin G	Do table 10, WP027 17.
<p style="text-align: center;"><b>LEGEND</b></p> <p>1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p>2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>				

Table 4. Station 6 Word 3 Data Readout Interpretation

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p style="text-align: center;"><b>NOTE</b></p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; check signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X2X1XX	Inflight Switch	Motor Fire OFF  Stray Voltage  115vac $\phi$ A  Motor Fire  Battery and Hydraulic Activate  Ground  Battery Armed  Eject No. 1  Eject No. 2	52P-R066A pin A, B, and C   52P-R066B 1 pin e and c or 2 pins FF and LL  52P-R066A pin A, B, and C  52P-R066B 1 pin U or 2 pin b  52P-R066B 1 pin g or 2 pin C  52P-R066B 1 pin r or 2 pin d  52P-R066A pin D  52P-R066A pin G	Do 1 table 1 or 2 table 1A, WP027 18.

Table 4. Station 6 Word 3 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X2X1XX	Battery Armed	Motor Fire OFF	52P-R066A pin A, B, and C	Do <input type="checkbox"/> 1 table 1 or <input type="checkbox"/> 2 table 1A, WP027 18.
		Stray Voltage		
		115vac $\phi$ A	52P-R066B <input type="checkbox"/> 1 pin e and c or <input type="checkbox"/> 2 pins FF and LL	
		Motor Fire	52P-R066A pin A, B, and C	
		Battery and Hydraulic Activate	52P-R066B <input type="checkbox"/> 1 pin U or <input type="checkbox"/> 2 pin b	
		Ground	52P-R066B <input type="checkbox"/> 1 pin g or <input type="checkbox"/> 2 pin C	
		Battery Armed	52P-R066B <input type="checkbox"/> 1 pin r or <input type="checkbox"/> 2 pin d	
		Eject No. 1	52P-R066A pin D	
1XXXXX	EJECT 2 OFF	Eject No. 2	52P-R066A pin G	Do table 10, WP027 17.
		Eject Command 2	52P-R066A pin G	
X4XXXX	Motor Fire ON	Motor Fire	52P-R066A pin A, B, and C	Do table 2, WP027 18.
		Altitude Switch 2	52P-R066B <input type="checkbox"/> 1 pin k or <input type="checkbox"/> 2 pin s	
		Recycle	52P-R066B <input type="checkbox"/> 1 pin T or <input type="checkbox"/> 2 pin q	
X2XXXX	Motor Fire OFF	Motor Fire	52P-R066A pin A, B, and C	Do table 3, WP027 18.
X1XXXX	Lock Driver ON	Launcher Lock Command	52P-R066B pin BB	Do table 4, WP027 18.
		Lock Monitor LAU-116	52P-R066B <input type="checkbox"/> 1 pin w or <input type="checkbox"/> 2 pin HH	

Table 4. Station 6 Word 3 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XX4XXX	Unlock Driver ON	Unlock Monitor LAU-116	52P-R066B 1 pin z or 2 pin E	Do table 5, WP027 18.
		Signal Ground	52P-R066B 1 pin g or 2 pin C	
		R 28vdc Weapon Power	52P-R066B 1 pin CC or 2 pin D	
		Launcher Unlock Command	52P-R066B 1 pin AA or 2 pin F	
		Lock Monitor LAU-116	52P-R066B 1 pin w or 2 pin HH	
		Unlock Monitor LAU-116	52P-R066B 1 pin z or 2 pin E	
XXX2XX	Lock Driver ON	Signal Ground	52P-R066B 1 pin g or 2 pin C	Do table 4, WP027 18.
		R 28vdc Weapon Power	52P-R066B 1 pin CC or 2 pin D	
		Launcher Lock Command	52P-R066B pin BB	
		Lock Monitor LAU-116	52P-R066B 1 pin w or 2 pin HH	
		Unlock Monitor LAU-116	52P-R066B 1 pin z or 2 pin E	
		Signal Ground	52P-R066B 1 pin g or 2 pin C	
XXXX1X	Stray Voltage	R 28vdc Weapon Power	52P-R066B 1 pin CC or 2 pin D	Do table 1, WP027 16.
		115vac $\phi$ A	52P-R066B 1 pin e and c or 2 pins FF and LL	

Table 4. Station 6 Word 3 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
		Motor Fire	52P-R066A pin A, B, and C	
		Battery and Hydraulic Activate	52P-R066B 1 pin U or 2 pin b	
		Ground	52P-R066B 1 pin g or 2 pin C	
		Battery Armed	52P-R066B 1 pin r or 2 pin d	
		Eject No. 1	52P-R066A pin D	
		Eject No. 2	52P-R066A pin G	
XXXX4X	Power OFF	R 115vac ϕA Weapon Power	52P-R066B 1 pin e or 2 pin FF	Do table 1, WP027 20.
		R 115vac ϕB Weapon Power	52P-R066B 1 pin L or 2 pin EE	
		R 115vac ϕC Weapon Power	52P-R066B 1 pin K or 2 pin DD	
LEGEND				
1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.				
2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.				

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 WEAPON SYSTEM END TO END TEST, PART 1

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control System .....	A1-F18AC-740-200
Stores Management System Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorpor- ation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Station 2, 3, 7, 8 Word 1 Data Readout X1XX1X


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;">NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div style="display: flex; justify-content: space-between;"><div><p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p><p>(2) Disconnect launcher bypass adapter cable from 61P-W095A and 61P-W095B.</p></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div></div>		



Table 1. Station 2, 3, 7, 8 Word 1 Data Readout X1XX1X (Continued)

Procedure	No	Yes
(3) Open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Does continuity exist between 61P-W012D pin W and 61P-W095A pin G? . . . . .	b	d
b. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable W56235, does continuity exist between 61P-W093 pin 6 and 61P-W095 pin G? . . . . .	c	e
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f . . . . .	-	-
d. Replace Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f . . . . .	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f . . . . .	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 61P-W012D		
(2) 61P-W093		
(3) Door 504 . . . . .	-	-

Table 2. Station 2, 3, 7, 8 Word 1 Data Readout XXX42X or XXX2XX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"><li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li><li>(2) Disconnect launcher by-pass adapter from 61P-W095A (failed station), or adapter cable from 61P-W095A and 61P-W095B.</li></ol>		

Table 2. Station 2, 3, 7, 8 Word 1 Data Readout XXX42X or XXX2XX (Continued)

Procedure	No	Yes
(3) Open door 504 (failed station) (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Does continuity exist between 61P-W095A pin E and 61P-W012D pin GG? . . . . .	b	e
b. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable W56235, does continuity exist between 61P-W095A pin E and 61P-W093 pin 3? . . . . .	c	d
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f . . . . .	-	-
d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f . . . . .	-	-
e. Replace Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f . . . . .	-	-
f. If disconnected, removed or opened during this procedure, make sure items listed below are connected, installed or closed:		
(1) 61P-W012D		
(2) 61P-W093		
(3) Doors 504, 502 . . . . .	-	-

Table 3. Station 2, 3, 7, 8 Word 1 Data Readout XXX525

Support Equipment Required				
Part Number or Type Designation	Nomenclature			
77/BN	Multimeter			
Materials Required				
None				
NOTE				
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.				
Component locations are shown in WP007 00.				
Malfunction is caused by one of the items listed below:				
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)				
Procedure	No	Yes		
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div>NOTE</div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"><li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li><li>(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.</li><li>(3) Open door 504 (A1-F18AC-LMM-010).</li><li>(4) Disconnect 61P-W012D from J4 on encoder-decoder.</li></ol>				

Table 3. Station 2, 3, 7, 8 Word 1 Data Readout XXX525 (Continued)

Procedure	No	Yes
<p>(5) Does continuity exist between:</p> <p>61P-W095A pin y and 61P-W012D pin t</p> <p>61P-W095A pin E and 61P-W012D pin GG</p> <p>61P-W095A pin f and 61P-W012D pin N</p> <p>61P-W095A pin Z and 61P-W012D pin F</p> <p>61P-W095A pin x and 61P-W012D pin X</p> <p>61P-W095A pin AA and 61P-W012D pin K</p> <p>61P-W095B pin R and 61P-W012D pin F? . . . . .</p>	b	d
<p>b. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable W56235, does continuity exist between:</p> <p>61P-W095A pin y and 61P-W093 pin 26</p> <p>61P-W095A pin E and 61P-W093 pin 3</p> <p>61P-W095A pin f and 61P-W093 pin 21</p> <p>61P-W095A pin Z and 61P-W093 pin 4</p> <p>61P-W095A pin x and 61P-W093 pin 25</p> <p>61P-W095A pin AA and 61P-W093 pin 42</p> <p>61P-W095B pin R and 61P-W093 pin 4? . . . . .</p>	c	e
<p>c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f . . . . .</p>	-	-
<p>d. Replace Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f . . . . .</p>	-	-
<p>e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f . . . . .</p>	-	-
<p>f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:</p> <p>(1) 61P-W012D</p> <p>(2) 61P-W093</p> <p>(3) Doors 504, 502 . . . . .</p>	-	-

Table 4. Station 2, 3, 7, 8 Word 1 Data Readout X12XXX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"><li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li><li>(2) Disconnect launcher by-pass adapter from 61P-W095A (failed station), or adapter cable from 61P-W095A and 61P-W095.</li></ol>		

Table 4. Station 2, 3, 7, 8 Word 1 Data Readout X12XXX (Continued)


Procedure	No	Yes
(3) Open door 504 (A1-F18AC-LMM-010).		
(4) Install a jumper wire from 61P-W095A pin v to aircraft ground.		
(5) Turn on electrical power (A1-F18AC-LMM-000).		
(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(7) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT control for best display.		
(8) On RDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
<input type="checkbox"/> (c) Does RDDI display 1 7F (failed station)? .....	b	e
<input type="checkbox"/> (d) Disconnect 61P-W012D from J4 on Wing Pylon Command Signal Encoder Decoder.		
<input type="checkbox"/> (e) Does continuity exist between 61P-W095A pin v and 61P-W012D pin b? .....	b	e
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W093 from 61J-W093.		
(3) On LAU-115 jumper cable, does continuity exist between 61P-W095A pin v and 61P-W093 pin 40? .....	c	
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step i .....	-	-
d. Do table 2, (WP010 23) for station 2 or table 2, (WP010 29) for station 8 and do step i .....	-	-

Table 4. Station 2, 3, 7, 8 Word 1 Data Readout X12XXX (Continued)

Procedure	No	Yes
<p>e. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(4) Does continuity exist between:</p> <p>61P-W095A pin D and 61P-W012D pin HH  61P-W095A pin G and 61P-W012D pin W? .....</p>	f	g
<p>f. Do substeps listed below:</p> <p>(1) Disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable, does continuity exist between:</p> <p>61P-W095A pin D and 61P-W093 pin 2  61P-W095A pin G and 61P-W093 pin 6? .....</p>	c	h
<p>g. Replace Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step i .....</p>	-	-
<p>h. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step i .....</p>	-	-
<p>i. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:</p> <p>(1) 61P-W012D</p> <p>(2) 61P-W093</p> <p>(3) Doors 504 and 502</p> <p>(4) Remove jumper wire (61P-W095A) .....</p>	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p>1 ➡ On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p>2 ➡ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		



**Table 5. Station 2/3 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 2 Power Control Schematic, Weapon Station 3 Power Control Schematic and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP027 03, WP028 03 and WP043 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Aircraft Wing Pylon SUU-63( ) Aircraft Wiring LAU-115 Jumper Cable W56235 Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) No. 11 Relay Panel Assembly</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;">  </div> <p>To prevent damage to multimeter during stray voltage testing, observe the list below:</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li> </ol> <p style="text-align: center; margin: 10px 0;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		

**Table 5. Station 2/3 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(5) Does stray voltage exist between:</p> <p>61P-W095B pin LL and aircraft ground 61P-W095B pin DD and aircraft ground? .....</p> <p>b. Does stray voltage exist between 61P-W095B pin C and aircraft? .....</p> <p>c. Does stray voltage exist between:</p> <p>61P-W095A pin A and aircraft ground 61P-W095A pin B and aircraft ground 61P-W095A pin C and aircraft ground 61P-W095A pin JJ and aircraft ground 61P-W095B pin R and aircraft ground? .....</p> <p>d. Do substeps below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(4) Does continuity exist between:</p> <p>61P-W095A pin G and 61P-W012D pin W 61P-W095A pin D and 61P-W012D pin HH 61P-W095A pin f and 61P-W012D pin N 61P-W095A pin x and 61P-W012D pin X 61P-W095B pin R and 61P-W012D pin F? .....</p>	<p>b</p> <p>c</p> <p>d</p> <p>e</p>	<p>n</p> <p>k</p> <p>i</p> <p>h</p>

**Table 5. Station 2/3 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>e. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable W56235, does continuity exist between:</p> <p>61P-W095A pin G and 61P-W093 pin 6  61P-W095A pin D and 61P-W093 pin 2  61P-W095A pin f and 61P-W093 pin 21  61P-W095A pin x and 61P-W093 pin 2  61P-W095B pin R and 61P-W093 pin 4? .....</p>	f	g
f. Replace LAU-115 jumper cable (A1-F18AC-740-300, WP025 00) and do step z .....	-	-
g. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step z .....	-	-
h. Replace Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step z .....	-	-
<p>i. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) Does stray voltage exist between:</p> <p>61P-W095A pin A and aircraft ground  61P-W095A pin B and aircraft ground  61P-W095A pin C and aircraft ground  61P-W095A pin JJ and aircraft ground  61P-W095B pin R and aircraft ground? .....</p>	h	j
<p>j. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-010).</p>		

**Table 5. Station 2/3 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
61P-W012D pin G and aircraft ground		
61P-W012D pin H and aircraft ground		
61P-W012D pin a and aircraft ground		
61P-W012D pin FF and aircraft ground		
61P-W012D pin F and aircraft ground? .....	f	g
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W093 from 61J-W093.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 61J-W093 pin 12 and aircraft ground? .....	f	l
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(3) On failed station does continuity exist between:		
Station 2 pylon disconnect 52J-U062 pin 47 and aircraft ground		
Station 3 pylon disconnect 52J-U063 pin 47 and aircraft ground? .....	m	g
m. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step z .....	-	-
n. Is stray voltage 115vac? .....	p	o
o. Do applicable troubleshooting listed below:		
Station 2, table 1A, WP027 19		
Station 3, table 3, WP027 20		
Do step z .....	-	-

**Table 5. Station 2/3 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
p. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W093 from 61J-W093.		
(3) On LAU-115 jumper cable, does continuity exist between:		
61P-W095B pin LL and 61P-W093 pins 9 and 68		
61P-W095B pin DD and 61P-WD93 pins 56 and 57? .....	f	q
q. Do substeps listed below:		
(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn on electrical power (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(4) Is failed station 3? .....	r	v
r. Does stray voltage exist between 52J-U062 pin 95 and aircraft ground? .....	s	t
s. Does stray voltage exist between:		
52J-U062 pin 87 and aircraft ground		
52J-U062 pin 82 and aircraft ground? .....	g	m
t. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 143L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-U045C from no. 11 relay panel assembly.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 52P-U045C pin a and aircraft ground? .....	u	m
u. Isolate malfunction between no. 11 relay panel assembly wiring and station 2 power control relay (61K-U122) (A1-F18AC-420-300, WP043 00) and do step z .....	-	-

**Table 5. Station 2/3 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
v. Does stray voltage exist between 52J-U063 pin 95 and aircraft ground? .....	w	x
w. Does stray voltage exist between:		
52J-U063 pin 87 and aircraft ground		
52J-U063 pin 82 and aircraft ground? .....	g	m
x. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 143L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-U045C from no. 11 relay panel assembly.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 52P-U045C pin f and aircraft ground? .....	y	m
y. Isolate malfunction between no. 11 relay panel assembly wiring and station 3 power control relay (61K-U123) (A1-F18AC-420-300, WP043 00) and do step z .....	-	-
z. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-U045C		
(2) 61P-W012D		
(3) 61P-W093		
(4) Aircraft Wing Pylon SUU-63( )		
(5) Doors 143L, 504 .....	-	-

Table 6. Station 2, 3, 7, 8 Word 1 Data Readout X4XXXX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>  None		
<b>NOTE</b>  Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.  Component locations are shown in WP007 00.		
Malfunction is caused by:  <div style="margin-left: 40px;">             Aircraft Wing Pylon SUU-63( )              LAU-115 Jumper Cable W56235              Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)           </div>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;">  </div> <p style="margin-left: 40px;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center; margin: 10px 0;"><b>NOTE</b></p> <p style="margin-left: 40px;">The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p style="margin-left: 20px;">a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect 61P-W093 from 61J-W093 (failed station).</li> </ol>		

Table 6. Station 2, 3, 7, 8 Word 1 Data Readout X4XXXX (Continued)

Procedure	No	Yes
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) On left and right Digital Display Indicators IP-1317/A (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT control for best display.		
(6) On RDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
(c) Does RDDI display 1 7F for station (2, 3, 7, 8) on stores display? . . . . .	b	c
b. Replace LAU-115 jumper cable, W56235 (A1-F18AC-740-300, WP025 00) and do step d . . . . .	-	-
c. Do substeps listed below:		
(1) Open door 504 (failed station) or door 502 (failed station) (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W012D from J4 on encoder-decoder.		
(3) Does a short exist between 61P-W012D pin b and aircraft ground? . . . . .	d	e
d. Replace Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f . . . . .	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f . . . . .	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 61P-W093		
(2) 62P-W012D		
(3) Doors 504, 502 . . . . .	-	-



**Table 7. Station 2/3 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>  None		
<b>NOTE</b>  Weapon Station 2 Power Control Schematic, Weapon Station 3, Power Control Schematic and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP027 03, WP028 03, and WP043 00) may be used as an aid when doing this procedure.  Component locations are shown in WP007 00.  Malfunction is caused by one of the items listed below:  Aircraft Wing Pylon SUU-63( ) Aircraft Wiring LAU-115 Jumper Cable W56235 Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) No. 11 Relay Panel Assembly		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="border: 2px solid black; display: inline-block; padding: 5px 15px; margin-bottom: 10px;"><b>WARNING</b></div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exist on pins other than the pins used in this procedure.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p> <p>a. Do substeps listed below:</p>		

**Table 7. Station 2/3 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(5) Does stray voltage exist between:</p> <p>61P-W095B pin LL and aircraft ground</p> <p>61P-W095B pin DD and aircraft ground? . . . . .</p>	b	k
<p>b. Does stray voltage exist between:</p> <p>61P-W095A pin A and aircraft ground</p> <p>61P-W095A pin B and aircraft ground</p> <p>61P-W095A pin C and aircraft ground</p> <p>61P-W095A pin JJ and aircraft ground</p> <p>61P-W095B pin R and aircraft ground? . . . . .</p>	c	h
<p>c. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(3) Does continuity exist between:</p> <p>61J-W093 pin 50 and aircraft ground</p> <p>61J-W093 pin 12 and aircraft ground? . . . . .</p>	d	g
<p>d. Do substeps listed below:</p> <p>(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) On failed station does continuity exist between:</p> <p>Station 2</p> <p>52J-U062 pin 35 and aircraft ground</p> <p>52J-U062 pin 47 and aircraft ground</p> <p>Station 3</p> <p>52J-U063 pin 35 and aircraft ground</p> <p>52J-U063 pin 47 and aircraft ground? . . . . .</p>	e	f
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step w . . . . .	-	-
f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step w . . . . .	-	-
g. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step w . . . . .	-	-

**Table 7. Station 2/3 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>h. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(6) Does stray voltage exist between:</p> <p>61P-W095A pin A and aircraft ground</p> <p>61P-W095A pin B and aircraft ground</p> <p>61P-W095A pin C and aircraft ground</p> <p>61P-W095A pin JJ and aircraft ground</p> <p>61P-W095B pin R and aircraft ground? . . . . .</p>	i	j
<p>i. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step w . . . . .</p>	-	-
<p>j. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(3) On LAU-115 jumper cable, does continuity exist between:</p> <p>61P-W095A pin A and 61P-W093 pin 24</p> <p>61P-W095A pin B and 61P-W093 pin 23</p> <p>61P-W095A pin C and 61P-W093 pin 33</p> <p>61P-W095A pin JJ and 61P-W093 pin 38</p> <p>61P-W095B pin R and 61P-W093 pin 4? . . . . .</p>	g	f
<p>k. Is stray voltage 115vac? . . . . .</p>	l	v
<p>l. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(3) On LAU-115 jumper cable, does continuity exist between:</p> <p>61P-W095B pin LL and 61P-W093 pins 9 and 68</p> <p>61P-W095B pin DD and 61P-W093 pins 56 and 67? . . . . .</p>	g	m
<p>m. Do substeps listed below:</p> <p>(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p>		

**Table 7. Station 2/3 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) Is failed station 3? .....	n	r
n. Does continuity exist between:		
52J-U062 pin 87 and aircraft ground		
52J-U062 pin 82 and aircraft ground? .....	e	o
o. Do substeps listed below:		
(1) Turn on electrical power (A1-F18AC-LMM-000).		
(2) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(3) Does stray voltage exist between 52J-U062 pin 95 and aircraft ground? .....	f	p
p. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 79L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-U045C from no. 11 relay panel assembly.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 52P-U045C pin a and aircraft ground? .....	q	e
q. Isolate malfunction between no. 11 relay panel assembly wiring and station 2 power control relay (61K-U122) (A1-F18AC-420-300, WP043 00) and do step w .....	-	-
r. Does continuity exist between:		
52J-U063 pin 87 and aircraft ground		
52J-U063 pin 82 and aircraft ground? .....	e	s
s. Do substeps listed below:		
(1) Turn on electrical power (A1-F18AC-LMM-000).		
(2) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(3) Does stray voltage exist between 52J-U063 pin 95 and aircraft ground? .....	f	t
t. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 79L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-U045C from no. 11 relay panel assembly.		

**Table 7. Station 2/3 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 52P-U045C pin f and aircraft ground? . . . . .	u	e
u. Isolate malfunction between no. 11 relay panel assembly wiring and station 3 power control relay (61K-U123) (A1-F18AC-420-300, WP043 00) and do step w . . . . .	-	-
v. Do applicable troubleshooting for failed station as listed below:		
Station 2, table 1A, WP027 19		
Station 3, table 3, WP027 20		
Do step w . . . . .	-	-
w. If disconnected, removed or opened during this procedure, make sure items listed below are connected, installed or closed:		
(1) 52P-U045C		
(2) 61P-W012D		
(3) 61P-W093		
(4) Aircraft Wing Pylon SUU-63( )		
(5) Doors 79L, 504 . . . . .	-	-



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 WEAPON SYSTEM END TO END TEST, PART 2

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control System .....	A1-F18AC-740-200
Stores Management System Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorpo- ration of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Station 2, 3, 7, 8 Word 1 Data Readout X1XXXX or XX4XXX

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"><li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li><li>(2) Disconnect launcher by-pass adapter cable (failed station) from 61P-W095A and 61P-W095B.</li></ol>		



**Table 1. Station 2, 3, 7, 8 Word 1 Data Readout X1XXXX or XX4XXX (Continued)**

Procedure	No	Yes
<p>(3) Install a jumper wire from 61P-W095A pin v to aircraft ground.</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On left and right Digital Display Indicators IP-1317/A (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT control for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until stores pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Does RDDI display 1 7F for failed station on stores display? . . . . .</p>	b	e
<p>b. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove jumper wire from 61P-W095A.</p> <p>(3) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(4) On LAU-115 jumper cable W56235 does continuity exist from 61P-W095A pin v to 61P-W093 pin 40? . . . . .</p>	c	d
<p>c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step i . . . . .</p>	-	-
<p>d. Do applicable station troubleshooting listed below:</p> <p>(1) Station 2: table 2 (WP010 23)</p> <p>(2) Station 3: table 4 (WP010 24)</p> <p>(3) Station 4: table 4 (WP010 27)</p> <p>(4) Station 5: table 2 (WP010 29) . . . . .</p>	-	-
<p>e. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(4) Does continuity exist between 61P-W012D pin W and 61P-W095A pin G? . . . . .</p>	f	h


**Table 1. Station 2, 3, 7, 8 Word 1 Data Readout X1XXXX or XX4XXX (Continued)**

Procedure	No	Yes
f. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable W56235 does continuity exist between 61P-W093 pin 6 and 61P-W095A pin G? .....	c	g
g. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step i .....	-	-
h. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step i .....	-	-
i. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 61P-W012D		
(2) 61P-W093		
(3) Doors 504, 502		
(4) Remove jumper wire (61P-W095A) .....	-	-

**Table 2. Station 2, 3, 7, 8 Word 1 Data Readout XX2XXX or XX1XXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( )	
LAU-115 Jumper Cable W56235	
Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

Table 2. Station 2, 3, 7, 8 Word 1 Data Readout XX2XXX or XX1XXX (Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 (failed station) (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from J4 on encoder-decoder.		
(4) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.		
(5) Does continuity exist between 61P-W095A pin D and 61P-W012D pin HH? . . . . .	b	d
b. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f . . . . .	c	e
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step i . . . . .	-	-
d. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f . . . . .	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f . . . . .	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) Doors 504, 502		

**Table 2. Station 2, 3, 7, 8 Word 1 Data Readout XX2XXX or XX1XXX (Continued)**

Procedure	No	Yes
(2) 61P-W012D		
(3) 61P-W093 .....	-	-

**Table 3. Station 2, 3, 7, 8 Word 1 Data Readout XXX4XX**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) LAU-116 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol>		

Table 3. Station 2, 3, 7, 8 Word 1 Data Readout XXX4XX (Continued)

Procedure	No	Yes
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.		
(3) Install a jumper wire between 61P-W095A pin v and aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On SNSR pod control panel assembly, set RADAR switch to STBY.		
(7) Is this aircraft 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74? .....	b	c
b. Does 115VAC exist between:		
61P-W095B pin EE and 61P-W095B pin LL (Return)		
61P-W095B pin FF and 61P-W095B pin LL (Return)? .....	d	e
c. Does 115vac exist between:		
61P-W095A pin MM and 61P-W095A pin PP (Return)		
61P-W095A pin m and 61P-W095A pin p (Return)		
61P-W095A pin NN and 61P-W095A pin PP (Return)		
61P-W095A pin n and 61P-W095A pin p (Return)? .....	d	e
d. Do applicable station troubleshooting listed below:		
(1) Station 2: table 1 (WP027 18)		
(2) Station 3: table 3 (WP027 20)		
(3) Station 7: table 4 (WP027 20)		
(4) Station 8: table 2 (WP027 19) and do step o .....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between:		
61P-W095A pin Y and aircraft ground		
61P-W095A pin u and aircraft ground		
61P-W095A pin b and aircraft ground		
61P-W095A pin c and aircraft ground? .....	f	h
f. Do substeps listed below.		

Table 3. Station 2, 3, 7, 8 Word 1 Data Readout XXX4XX (Continued)

Procedure	No	Yes
<p>(1) Disconnect 61P-W093 from 61J-W093.</p> <p>(2) Does continuity exist between:</p> <p>61P-W095A pin Y and 61P-W093 pin 13</p> <p>61P-W095A pin u and 61P-W093 pin 14</p> <p>61P-W095A pin b and 61P-W093 pin 51</p> <p>61P-W095A pin c and 61P-W093 pin 52? . . . . .</p>	g	j
g. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step p . . . . .	-	-
h. Do substeps listed below:		
<p>(1) Open Door 504 (failed station) (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(3) Does continuity exist between:</p> <p>61P-W095A pin E and 61P-W012D pin GG</p> <p>61P-W095A pin y and 61P-W012D pin t? . . . . .</p>	i	l
i. Do substep listed below:		
<p>(1) Disconnect 61P-W093 from 61J-W093.</p> <p>(2) Does continuity exist between:</p> <p>61P-W095A pin E and 61P-W093 pin 3</p> <p>61P-W095A pin y and 61P-W093 pin 26? . . . . .</p>	g	m
j. Do substeps listed below:		
<p>(1) Remove Aircraft Wing Pylon SUU-63( ) (failed station) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist between:</p> <p>Station 2: 52J-V068 pin 13 and aircraft ground</p> <p>52J-V068 pin 18 and aircraft ground</p> <p>52J-V068 pin 26 and aircraft ground</p> <p>52J-V068 pin 36 and aircraft ground</p> <p>Station 3: 52J-U063 pin 13 and aircraft ground</p> <p>52J-U063 pin 18 and aircraft ground</p> <p>52J-U063 pin 26 and aircraft ground</p> <p>52J-U063 pin 36 and aircraft ground</p> <p>Station 7: 52J-V067 pin 13 and aircraft ground</p> <p>52J-V067 pin 18 and aircraft ground</p> <p>52J-V067 pin 26 and aircraft ground</p> <p>52J-V067 pin 36 and aircraft ground</p> <p>Station 8: 52J-U062 pin 13 and aircraft ground</p> <p>52J-U062 pin 18 and aircraft ground</p>		


**Table 3. Station 2, 3, 7, 8 Word 1 Data Readout XXX4XX (Continued)**

Procedure	No	Yes
52J-U062 pin 26 and aircraft ground 52J-U062 pin 36 and aircraft ground? .....	k	m
k. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step p .....	-	-
l. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V), WP009 00) and do step p .....	-	-
m. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step p .....	-	-
n. Does continuity exist between:		
o. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) Aircraft Wing Pylon SUU-63( )		
(2) Door 504		
(3) 61P-W012D		
(4) 61P-W093		
(5) Remove jumper wire (61P-W095A) .....	-	-

**Table 4. Station 2, 3, 7, 8 Word 1 Data Readout XXX1XX or XXXX4X**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( )	
LAU-115 Jumper Cable W56235	
Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

Table 4. Station 2, 3, 7, 8 Word 1 Data Readout XXX1XX or XXXX4X (Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.		
(3) Open Door 504 (failed station) (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Does continuity exist between 61P-W095A pin f and 61P-W012D pin N? .....	b	e
b. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable W56235 does continuity exist between 61P-W095A pin f and 61P-W093 pin 21? .....	c	d
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f .....	-	-
d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f .....	-	-
e. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f .....	-	-
f. If disconnected, removed, or opened during this procedure make sure items listed below are connected, installed or closed:		



**Table 4. Station 2, 3, 7, 8 Word 1 Data Readout XXX1XX or XXXX4X (Continued)**

Procedure	No	Yes
(1) Doors 504, 502		
(2) 61P-W012D		
(3) 61P-W093 .....	-	-


**Table 5. Station 2, 3, 7, 8 Word 1 Data Readout XXXX1X or XXXX2X**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( )		
LAU-115 Jumper Cable W56235		
Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p>		

Table 5. Station 2, 3, 7, 8 Word 1 Data Readout XXXX1X or XXXX2X (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.		
(3) Open door 504 (failed station) (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Does continuity exist between 61P-W095B P in R and 61P-W012D pin F? .....	b	e
b. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable W56235 does continuity exist between 61P-W095B pin R and 61P-W093 pin 4? .....	c	d
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f .....	-	-
d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f .....	-	-
e. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) Doors 504, 502		
(2) 61P-W012D		
(3) 61P-W093 .....	-	-

Table 6. Station 2, 3, 7, 8 Word 1 Data Readout XXXXX2 or XXXXX4

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

**Table 6. Station 2, 3, 7, 8 Word 1 Data Readout XXXXX2 or XXXXX4 (Continued)**

Procedure	No	Yes
(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.		
(3) Open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Does continuity exist between 61P-W095A pin x and 61P-W012D pin X? . . . . .	b	e
b. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable W56235 does continuity exist between 61P-W095A pin x and 61P-W093 pin 25? . . . . .	c	d
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f . . . . .	-	-
d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f . . . . .	-	-
e. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f . . . . .	-	-
f. If disconnected, removed or opened during this procedure make sure the items listed below are connected, installed or closed:		
(1) Doors 504, 502		
(2) 61P-W012D		
(3) 61P-W093 . . . . .	-	-

**Table 7. Station 2, 3, 7, 8 Word 1 Data Readout XXXXX1 or Word 2 Data Readout 1XXXXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 7. Station 2, 3, 7, 8 Word 1 Data Readout XXXXX1 or  
Word 2 Data Readout 1XXXXX (Continued)**

NOTE		
<p>Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.		
(3) Open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Does continuity exist between 61P-W095A pin AA and 61P-W012D pin K?. . . . .	b	d
b. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		


**Table 7. Station 2, 3, 7, 8 Word 1 Data Readout XXXXX1 or  
Word 2 Data Readout 1XXXXX (Continued)**

Procedure	No	Yes
(2) On LAU-115 jumper cable W56235 does continuity exist between 61P-W095A pin AA and 61P-W093 pin 42? . . . . .	c	e
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f . . . . .	-	-
d. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f . . . . .	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f . . . . .	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 61P-W012D		
(2) 61P-W093		
(3) Doors 504, 502 . . . . .	-	-

**Table 8. Station 2, 3, 7, 8 Word 2 Data Readout X5252X**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( )	
LAU-115 Jumper Cable W56235	
Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

Table 8. Station 2, 3, 7, 8 Word 2 Data Readout X5252X (Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.</li> <li>(3) Open door 504 (A1-F18AC-LMM-010).</li> <li>(4) Disconnect 61P-W012D from J4 on encoder-decoder.</li> <li>(5) Does continuity exist between: <ul style="list-style-type: none"> <li>61P-W095A pin e and 61P-W012D pin h</li> <li>61P-W095A pin F and 61P-W012D pin DD</li> <li>61P-W095A pin h and 61P-W012D pin D</li> <li>61P-W095A pin M and 61P-W012D pin z</li> <li>61P-W095A pin j and 61P-W012D pin AA</li> <li>61P-W095A pin J and 61P-W012D pin S</li> <li>61P-W095A pin K and 61P-W012D pin n? .....</li> </ul> </li> </ol>	b	d
<p>b. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) In door 502, disconnect 61P-W093 from 61J-W093.</li> <li>(2) On LAU-115 jumper cable W56235 does continuity exist between: <ul style="list-style-type: none"> <li>61P-W095A pin e and 61P-W093 pin 20</li> <li>61P-W095A pin F and 61P-W093 pin 5</li> <li>61P-W095A pin h and 61P-W093 pin 22</li> <li>61P-W095A pin M and 61P-W093 pin 46</li> <li>61P-W095A pin j and 61P-W093 pin 27</li> </ul> </li> </ol>		

**Table 8. Station 2, 3, 7, 8 Word 2 Data Readout X5252X (Continued)**


Procedure	No	Yes
61P-W095A pin J and 61P-W093 pin 18 61P-W095A pin K and 61P-W093 pin 19? .....	c	e
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f .....	-	-
d. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f .....	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f .....	-	-
f. If disconnected, removed, or opened during this procedure make sure items listed below are connected, installed or closed.		
(1) 61P-W012D		
(2) 61P-W093		
(3) Doors 504, 502 .....	-	-

**Table 9. Station 2, 3, 7, 8 Word 2 Data Readout 12525X**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP027 00) or Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	



Table 9. Station 2, 3, 7, 8 Word 2 Data Readout 12525X (Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.</li> <li>(3) Open door 504 (A1-F18AC-LMM-010).</li> <li>(4) Disconnect 61P-W012D from J4 on encoder-decoder.</li> <li>(5) Does continuity exist between: <ul style="list-style-type: none"> <li>61P-W095A pin AA and 61P-W012D pin K</li> <li>61P-W095A pin e and 61P-W012D pin h</li> <li>61P-W095A pin F and 61P-W012D pin DD</li> <li>61P-W095A pin h and 61P-W012D pin D</li> <li>61P-W095A pin M and 61P-W012D pin z</li> <li>61P-W095A pin j and 61P-W012D pin AA</li> <li>61P-W095A pin J and 61P-W012D pin S</li> <li>61P-W095A pin K and 61P-W012D pin n? .....</li> </ul> </li> </ol>	b	d
<p>b. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) In door 502, disconnect 61P-W093 from 61J-W093.</li> <li>(2) On LAU-115 jumper cable W56235 does continuity exist between: <ul style="list-style-type: none"> <li>61P-W095A pin AA and 61P-W093 pin 42</li> <li>61P-W095A pin e and 61P-W093 pin 20</li> <li>61P-W095A pin F and 61P-W093 pin 5</li> <li>61P-W095A pin h and 61P-W093 pin 22</li> <li>61P-W095A pin M and 61P-W093 pin 46</li> </ul> </li> </ol>		

**Table 9. Station 2, 3, 7, 8 Word 2 Data Readout 12525X (Continued)**

Procedure	No	Yes
61P-W095A pin j and 61P-W093 pin 27 61P-W095A pin J and 61P-W093 pin 18 61P-W095A pin K and 61P-W093 pin 19? .....	c	e
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f .....	-	-
d. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f .....	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f .....	-	-
f. If disconnected, removed, or opened during this procedure make sure items listed below are connected, installed or closed.		
(1) 61P-W012D		
(2) 61P-W093		
(3) Doors 504, 502 .....	-	-

**Table 10. Station 2, 3, 7, 8 Word 2 Data Readout X2XXXX or X4XXXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

Table 10. Station 2, 3, 7, 8 Word 2 Data Readout X2XXXX or X4XXXX (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.		
(3) Open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 or encoder-decoder.		
(5) Does continuity exist between 61P-W095A pin e and 61P-W012D pin h? .....	b	d
b. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable W56235 does continuity exist between 61P-W095A pin e and 61P-W093 pin 20? .....	c	e
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f .....	-	-
d. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f .....	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		

Table 10. Station 2, 3, 7, 8 Word 2 Data Readout X2XXXX or X4XXXX (Continued)

Procedure	No	Yes
(1) 61P-W012D		
(2) 61P-W093		
(3) Doors 504, 502 .....	-	-

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 WEAPON SYSTEM END TO END TEST, PART 3

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
 Line Maintenance Access Doors ..... A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorpo- ration of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Station 2, 3, 7, 8 Word 2 Data Readout X1XXXX or XX4XXX

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div><div>(1) Turn off electrical power (A1-F18AC-LMM-000).</div><div>(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.</div></div>		


**Table 1. Station 2, 3, 7, 8 Word 2 Data Readout X1XXXX or XX4XXX (Continued)**

Procedure	No	Yes
(3) Open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Does continuity exist between 61P-W095A pin F and 61P-W012D pin DD? . . . . .	b	d
b. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) Does continuity exist between 61P-W095A pin F and 61P-W093 pin 5? . . . . .	c	e
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f . . . . .	-	-
d. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f . . . . .	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f . . . . .	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 61P-W012D		
(2) 61P-W093		
(3) Doors 504 and 502 . . . . .	-	-

**Table 2. Station 2, 3, 7, 8 Word 2 Data Readout XX1XXX or XX2XXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	

**Table 2. Station 2, 3, 7, 8 Word 2 Data Readout XX1XXX or XX2XXX (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.		
(3) Open door 504, (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Does continuity exist between 61P-W095A pin h and 61P-W012D pin D? .....	b	d
b. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) Does continuity exist between 61P-W095A pin h and 61P-W093 pin 22? .....	c	e
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f .....	-	-
d. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f .....	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f .....	-	-



**Table 2. Station 2, 3, 7, 8 Word 2 Data Readout XX1XXX or XX2XXX (Continued)**

Procedure	No	Yes
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 61P-W012D		
(2) 61P-W093		
(3) Doors 504 and 502 .....	-	-


**Table 3. Station 2, 3, 7, 8 Word 2 Data Readout XXX2XX or XXX4XX**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div>NOTE</div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p>		

**Table 3. Station 2, 3 , 7, 8 Word 2 Data Readout XXX2XX or XXX4XX (Continued)**

Procedure	No	Yes
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.		
(3) Open door 504, (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Does continuity exist between 61P-W095A pin M and 61P-W012D pin z? .....	b	d
b. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) Does continuity exist between 61P-W095A pin M and 61P-W093 pin 46? .....	c	e
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f .....	-	-
d. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f .....	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 61P-W012D		
(2) 61P-W093		
(3) Doors 504 and 502 .....	-	-


Table 4. Station 2, 3, 7, 8 Word 2 Data Readout XXX1XX or XXXX4X

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;"> <b>NOTE</b> </div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect launcher by-pass adapter cable 61P-W095A and 61P-W095B.</li> </ol>		

**Table 4. Station 2, 3, 7, 8 Word 2 Data Readout XXX1XX or XXXX4X (Continued)**

Procedure	No	Yes
(3) Open door 504 (failed station) (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Does continuity exist between 61P-W095A pin j and 61P-W012D pin AA? . . . . .	b	d
b. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) Does continuity exist between 61P-W095A pin j and 61P-W093 pin 27? . . . . .	c	e
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f . . . . .	-	-
d. Replace Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f . . . . .	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f . . . . .	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 61P-W012D		
(2) 61P-W093		
(3) Doors 504 and 502 . . . . .	-	-

Table 5. Station 2, 3, 7, 8 Word 2 Data Readout XXXX1X or XXXX2X

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.</li> </ol>		

**Table 5. Station 2, 3, 7, 8 Word 2 Data Readout XXXX1X or XXXX2X (Continued)**

Procedure	No	Yes
(3) Open door 504, (A1-F18AC-LMM-010).  (4) Disconnect 61P-W012D from J4 on encoder-decoder.  (5) Does continuity exist between:  61P-W095A pin J and 61P-W012D pin S 61P-W095A pin K and 61P-W012D pin n? .....	b	d
b. Do substeps listed below:  (1) In door 502, disconnect 61P-W093 from 61J-W093.  (2) On LAU-115 jumper cable W56235 does continuity exist between:  61P-W095A pin J and 61P-W093 pin 18 61P-W095A pin K and 61P-W093 pin 19? .....	c	e
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f .....	-	-
d. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f .....	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:  (1) 61P-W012D  (2) 61P-W093  (3) Doors 504 and 502 .....	-	-

Table 6. Station 2, 3, 7, 8 Word 3 Data Readout X2X1XX

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00), Weapon Station 2 Power Control Schematic (A1-F18AC-740-500, WP027 00), Weapon Station 3 Power Control Schematic (A1-F18AC-740-500, WP028 00), Weapon Station 7 Power Control Schematic (A1-F18AC-740-500, WP032 00), and Weapon Station 8 Power Control Schematic (A1-F18AC-740-500, WP033 00) may be used as aids when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63 Aircraft Wiring LAU-115 Jumper Cable W56235 Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) No. 10 Relay Panel Assembly No. 11 Relay Panel Assembly		
Procedure	No	Yes
<div>WARNING</div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div>CAUTION</div> <p>To prevent damage to multimeter during stray voltage testing observe the list below:</p> <ul style="list-style-type: none"><li>a. Start testing with multimeter on highest range scale.</li><li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li><li>c. Test for AC and DC voltages.</li><li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li></ul>		

Table 6. Station 2, 3, 7, 8 Word 3 Data Readout X2X1XX (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
a. Do substeps listed below:		
(1) Do memory inspect of failed station for word 1 as listed below:		
Station 2, table 1, WP027 03		
Station 3, table 5, WP027 03		
Station 7, table 5, WP027 04		
Station 8, table 1, WP027 04		
(2) Is Word 1 Data readout X1XX1X? .....	b	g
b. Is Word 1 Data readout X25252? .....	c	h
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.		
(3) Open door 504 (A1-F18AC-LMM-000).		
(4) Disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Does continuity exist between:		
61P-W095A pin A and 61P-W012D pin G		
61P-W095A pin B and 61P-W012D pin H		
61P-W095A pin C and 61P-W012D pin a? .....	d	i
d. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable, does continuity exist between:		
61P-W095A pin A and 61P-W093 pin 24		
61P-W095A pin B and 61P-W093 pin 23		



**Table 6. Station 2, 3, 7, 8 Word 3 Data Readout X2X1XX (Continued)**

Procedure	No	Yes
61P-W095A pin C and 61P-W093 pin 33? .....	e	f
e. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step an .....	-	-
f. Replace Aircraft Wing Pylon SUU-63 (A1-F18AC-740-300, WP034 00) and do step an .....	-	-
g. Inflight switch malfunction, do table 1, WP027 07. Do step an .....	-	-
h. Battery armed malfunction, do table 5, WP027 07. Do step an .....	-	-
i. Do substeps listed below:		
(1) In door 504, connect 61P-W012D to J4 on encoder-decoder.		
(2) Turn on electrical power (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(4) Does stray voltage exist between:		
61P-W095B pin DD and aircraft ground 61P-W095B pin LL and aircraft ground? .....	j	r
j. Does stray voltage exist between:		
61P-W095A pin A and aircraft ground 61P-W095A pin B and aircraft ground 61P-W095A pin C and aircraft ground 61P-W095A pin JJ and aircraft ground 61P-W095B pin R and aircraft ground? .....	k	q
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between:		
61P-W095A pin GG and aircraft ground 61P W095B pin C and aircraft ground? .....	l	o
l. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable, does continuity exist between:		

**Table 6. Station 2, 3, 7, 8 Word 3 Data Readout X2X1XX (Continued)**

Procedure	No	Yes
61P-W095A pin GG and 61P-W093 pin 50 61P-W095B pin C and 61P-W093 pin 12? .....	e	m
m. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63 (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
Station 2		
52J-U062 pin 35 and aircraft ground		
52J-U062 pin 47 and aircraft ground?		
Station 3		
52J-U063 pin 35 and aircraft ground		
52J-U063 pin 47 and aircraft ground?		
Station 7		
52J-V067 pin 35 and aircraft ground		
52J-V067 pin 47 and aircraft ground?		
Station 8		
52J-V068 pin 35 and aircraft ground		
52J-V068 pin 47 and aircraft ground? .....	n	f
n. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step an .....	-	-
o. Replace failed station Command-Signal Encoder-Decoder (A1-F18AC-740-300, WP009 00) and do step an .....	-	-
p. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 (failed station) (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from J4 on encoder-decoder.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
61P-W095A pin A and aircraft ground		
61P-W095A pin B and aircraft ground		
61P-W095A pin C and aircraft ground		
61P-W095A pin JJ and aircraft ground		
61P-W095B pin R and aircraft ground? .....	o	q

**Table 6. Station 2, 3, 7, 8 Word 3 Data Readout X2X1XX (Continued)**

Procedure	No	Yes
q. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W093 from 61J-W093.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Does stray voltage exist between:		
61P-W012D pin G and aircraft ground		
61P-W012D pin H and aircraft ground		
61P-W012D pin a and aircraft ground		
61P-W012D pin FF and aircraft ground		
61P-W012D pin F and aircraft ground? .....	e	f
r. Is stray voltage 115vac? .....	s	al
s. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W093 from 61J-W093.		
(3) On LAU-115 jumper cable, does continuity exist between:		
61P-W095B pin DD and 61P-W093 pins 56 and 67		
61P-W095B pin LL and 61P-W093 pins 9 and 68? .....	e	t
t. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63 (failed station) (A1-F18AC-740-300, WP034 00).		
(2) Turn on electrical power (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(4) Is this station 7 or 8? .....	u	ad
u. Is this station 3? .....	v	z
v. Does stray voltage exist between 52J-U062 pin 95 and aircraft ground? .....	w	x
w. Does stray voltage exist between:		
52J-U062 pin 82 and aircraft ground		
52J-U062 pin 87 and aircraft ground? .....	f	n

Table 6. Station 2, 3, 7, 8 Word 3 Data Readout X2X1XX (Continued)

Procedure	No	Yes
x. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 79L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-U045C from no. 11 relay panel assembly.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 52P-U045C pin a and aircraft ground? .....	y	n
y. Isolate malfunction between no. 11 relay panel assembly wiring and station 2 power control relay (61K-U122) (A1-F18AC-420-300, WP043 00) and do step an .....	-	-
z. Does stray voltage exist between 52J-U063 pin 95 and aircraft ground? .....	as	ab
aa. Does stray voltage exist between:		
52J-U063 pin 82 and aircraft ground		
52J-U063 pin 87 and aircraft ground? .....	f	n
ab. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 79L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-U0145C from no. 11 relay panel assembly.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 52P-U045C pin f and aircraft ground? .....	ac	n
ac. Isolate malfunction between no. 11 relay panel assembly wiring and station 3 power control relay (61K-U123) (A1-F18AC-420-300, WP043 00) and do step an .....	-	-
ad. Is this station 8? .....	ae	ai
ae. Does stray voltage exist between 52J-V06 7 pin 95 and aircraft ground? .....	af	ag
af. Does stray voltage exist between:		

Table 6. Station 2, 3, 7, 8 Word 3 Data Readout X2X1XX (Continued)

Procedure	No	Yes
52J-V067 pin 82 and aircraft ground 52J-V067 pin 87 and aircraft ground? .....	f	n
ag. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 79R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-V044C from no. 10 relay panel assembly.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 52P-V044C pin f and aircraft ground? .....	ah	n
ah. Isolate malfunction between no. 10 relay panel assembly wiring and station 7 power control relay (61K-V127) (A1-F18AC-420-300, WP042 00) and do step an .....	-	-
ai. Does stray voltage exist between 52J-V068 pin 95 and aircraft ground? .....	aj	ak
aj. Does stray voltage exist between:		
52J-V068 pin 82 and aircraft ground 52J-V068 pin 87 and aircraft ground? .....	f	n
ak. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 79R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-V044C from no. 10 relay panel assembly.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 52P-V044C pin a and aircraft ground? .....	ak	n
al. Isolate malfunction between no. 10 relay panel assembly wiring and station 8 power control relay (61K-V128) (A1-F18AC-420-300, WP042 00) and do step an .....	-	-
am. Do applicable troubleshooting listed below:		

**Table 6. Station 2, 3, 7, 8 Word 3 Data Readout X2X1XX (Continued)**

Procedure	No	Yes
Station 2: table 1A, WP027 19 Station 3: table 3, WP027 19 Station 7: table 3, WP027 20 Station 8: table 2A, WP027 20  an. If disconnected, removed or opened during this procedure, make sure the items listed below are connected, installed or closed:  (1) 52P-U045C  (2) 52P-V044C  (3) 61P-W012D  (4) 61P-W093  (5) 61P-W095A  (6) 61P-W095B  (7) Aircraft Wing Pylon SUU-63  (8) Doors 79L, 79R, 502, and 504 .....	-	-

Table 7. Station 2, 3, 7, 8 Word 3 Data Readout X4XXXX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00), or Weapon Station 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP033 00) may be used as aids doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;">NOTE</div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div style="display: flex; justify-content: space-between;"><div>(1) Turn off electrical power (A1-F18AC-LMM-000).</div><div style="border-left: 1px solid black; height: 60px; width: 40px;"></div><div style="border-left: 1px solid black; height: 60px; width: 40px;"></div></div>		

Table 7. Station 2, 3, 7, 8 Word 3 Data Readout X4XXXX (Continued)

Procedure	No	Yes
<p>(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.</p> <p>(3) Open door 504 (failed station) (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(5) Does continuity exist between:</p> <p>61P-W095A pin A and 61P-W012D pin G  61P-W095A pin B and 61P-W012D pin H  61P-W095A pin E and 61P-W012D pin GG  61P-W095A pin y and 61P-W012D pin t? . . . . .</p>	b	d
<p>b. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable W56235 does continuity exist between:</p> <p>61P-W095A pin A and 61P-W093 pin 24  61P-W095A pin B and 61P-W093 pin 23  61P-W095A pin E and 61P-W093 pin 3  61P-W095A pin y and 61P-W093 pin 26? . . . . .</p>	c	e
<p>c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f . . . . .</p>	-	-
<p>d. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f . . . . .</p>	-	-
<p>e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f . . . . .</p>	-	-
<p>f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:</p> <p>(1) 61P-W012D</p> <p>(2) 61P-W093</p> <p>(3) Doors 504 and 502 . . . . .</p>	-	-



Table 8. Station 2, 3, 7, 8 Word 3 Data Readout X2XXXX

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-115C/A Aircraft Wing Pylon SUU-63 LAU-115 Jumper Cable W56235 Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
NOTE		
The question used in logic tree "Does continuity exist" means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 Motor Fire cable from 61P-Y214E (AIM-7 motor fire connector on LAU-115) (failed station).		
(3) Open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Does continuity exist between:		

Table 8. Station 2, 3, 7, 8 Word 3 Data Readout X2XXXX (Continued)

Procedure	No	Yes
61P-Y214E pin A and 61P-W012D pin G 61P-Y214E pin B and 61P-W012D pin H? .....	b	e
b. Do substeps listed below:  (1) Open door 502 (A1-F18AC-LMM-010).  (2) Disconnect 61P-W095A from 61J-W095A.  (3) Does continuity exist between:  61P-W095A-pinA and 61P-W012D pin G 61P-W095A-pin B and 61P-W012D pin H? .....	c	g
c. Do substeps listed below:  (1) Open door 502 (A1-F18AC-LMM-010).  (2) Disconnect 61P-W093 from 61J-W093.  (3) On LAU-115 jumper cable, does continuity exist between:  61P-W095A pin A and 61P-W093 pin 24 61P-W095A pin B and 61P-W093 pin 23? .....	d	f
d. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step h .....	-	-
e. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step h .....	-	-
f. Replace Aircraft Wing Pylon SUU-63 (A1-F18AC-740-300, WP034 00) and do step h .....	-	-
g. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step h .....	-	-
h. If disconnected, removed or opened during this procedure, make sure items listed below are connected, installed or closed:  (1) 61P-W012D  (2) 61P-W093  (3) 61P-W095A  (4) 61P-W095B  (5) Doors 502, 504 .....	-	-

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 WEAPON SYSTEM END TO END TEST, PART 4

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control System .....	A1-F18AC-740-200
Stores Management System Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA-F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**Table 1. Station 2, 3, 7, 8 Word 3 Data Readout X1XXXX or XXX2XX -**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Aircraft Wiring LAU-115 Jumper Cable W56235 Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
NOTE		
The question used in logic tree "Does continuity exist" means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(5) Does 28vdc exist between 61P-W095B pin HH and aircraft ground? .....	b	p

**Table 1. Station 2, 3, 7, 8 Word 3 Data Readout X1XXXX or XXX2XX - (Continued)**

Procedure	No	Yes
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W093 from 61J-W093.		
(3) On LAU-115 jumper cable, does continuity exist between 61P-W095B pin HH and 61P-W093 pins 8 and 17? .....	c	d
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step w .....	-	-
d. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn on electrical power (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(4) Is failed station 7 or 8? .....	e	k
e. Is failed station 3? .....	f	h
f. Does 28vdc exist between 52J-U062 pin 75 and aircraft ground? .....	g	j
g. Isolate defective aircraft wiring between 52J-U062 pin 75 and 52J-U062 pin 102 (A1-F18A( )-WDM-000) and do step w .....	-	-
h. Does 28vdc exist between 52J-U063 pin 75 and aircraft ground? .....	i	j
i. Isolate defective aircraft wiring between 52J-U063 pin 75 and 52J-U063 pin 102 (A1-F18A( )-WDM-000) and do step w .....	-	-
j. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step w .....	-	-
k. Is failed station 8? .....	l	n
l. Does 28vdc exist between 52J-V067 pin 75 and aircraft ground? .....	m	j
m. Isolate defective aircraft wiring between 52J-V067 pin 75 and 52J-V067 pin 102 (A1-F18A( )-WDM-000) and do step w .....	-	-
n. Does 28vdc exist between 52J-V068 pin 75 and aircraft ground? .....	o	j
o. Isolate defective aircraft wiring between 52J-V068 pin 75 and 52J-V068 pin 102 (A1-F18A( )-WDM-000) and do step w .....	-	-

**Table 1. Station 2, 3, 7, 8 Word 3 Data Readout X1XXXX or XXX2XX - (Continued)**

Procedure	No	Yes
p. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 61P-W095B pin C and aircraft ground? .....	q	t
q. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable, does continuity exist between 61P-W095B pin C and 61P-W093 pin 12? .....	c	r
r. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) On failed station, does continuity exist between:		
Station 2 52J-U062 pin 47 and aircraft ground		
Station 3 52J-U063 pin 47 and aircraft ground		
Station 7 52J-V067 pin 47 and aircraft ground		
Station 8 52J-V068 pin 47 and aircraft ground? .....	s	j
s. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step w .....	-	-
t. Do substeps listed below:		
(1) Open door 504 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W012D from J4 on encoder-decoder.		
(3) Does continuity exist between:		
61P-W095A pin DD and 61P-W012D pin T		
61P-W095A pin HH and 61P-W012D pin C		
61P-W095A pin BB and 61P-W012D pin p? .....	u	v
u. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable, does continuity exist between:		
61P-W095A pin DD and 61P-W093 pin 7		
61P-W095A pin HH and 61P-W093 pin 39		
61P-W095A pin BB and 61P-W093 pin 43? .....	c	j
v. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step w .....	-	-

**Table 1. Station 2, 3, 7, 8 Word 3 Data Readout X1XXXX or XXX2XX - (Continued)**

Procedure	No	Yes
w. If disconnected, removed or opened during this procedure, make sure items listed below are connected, installed or closed:		
(1) Aircraft Wing Pylon SUU-63( )		
(2) 61P-W012D		
(3) 61P-W093		
(4) 61P-W095A		
(5) 61P-W095B		
(6) Doors 502 and 504 .....	-	-

**Table 2. Station 2, 3, 7, 8 Word 3 Data Readout XX4XXX -**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
LAU-115 Jumper Cable W56235	
Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

Table 2. Station 2, 3, 7, 8 Word 3 Data Readout XX4XXX - (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(5) Does 28vdc exist between 61P-W095B pin HH and aircraft ground? .....	b	p
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W093 from 61J-W093.		
(3) On LAU-115 jumper cable, does continuity exist between 61P-W095B pin HH and 61P-W093 pins 8 and 17? .....	c	d
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step w .....	-	-
d. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn on electrical power (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(4) Is failed station 7 or 8? .....	e	k
e. Is failed station 3? .....	f	h




Table 2. Station 2, 3, 7, 8 Word 3 Data Readout XX4XXX - (Continued)

Procedure	No	Yes
f. Does 28vdc exists between 52J-U062 pin 75 and aircraft ground? .....	g	j
g. Isolate defective aircraft wiring between 52J-U062 pin 75 and 52J-U062 pin 102 (A1-F18A( )-WDM-000) and do step w .....	-	-
h. Does 28vdc exists between 52J-U063 pin 75 and aircraft ground? .....	g	j
i. Isolate defective aircraft wiring between 52J-U063 pin 75 and 52J-U063 pin 102 (A1-F18A( )-WDM-000) and do step w .....	-	-
j. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step w .....	-	-
k. Is failed station 8? .....	l	n
l. Does 28vdc exist between 52J-V067 pin 75 and aircraft ground? .....	m	j
m. Isolate defective aircraft wiring between 52J-V067 pin 75 and 52J-V067 pin 102 (A1-F18A( )-WDM-000) and do step w .....	-	-
n. Does 28vdc exist between 52J-V068 pin 75 and aircraft ground? .....	o	j
o. Isolate defective aircraft wiring between 52J-V068 pin 75 and 52J-V068 pin 102 (A1-F18A( )-WDM-000) and do step w .....	-	-
p. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Does continuity exist between 61P-W095B pin C and aircraft ground? .....	q	t
q. Do substeps listed below:  (1) In door 502, disconnect 61P-W093 from 61J-W093.  (2) On LAU-115 jumper cable, does continuity exist between 61P-W095B pin C and 61P-W093 pin 12? .....	c	r
r. Do substeps listed below:  (1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (2) On failed station, does continuity exist between:  Station 2: 52J-U062 pin 47 and aircraft ground Station 3: 52J-U063 pin 47 and aircraft ground Station 7: 52J-V067 pin 47 and aircraft ground Station 8: 52J-V068 pin 47 and aircraft ground? .....	s	j
s. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step w .....	-	-

Table 2. Station 2, 3, 7, 8 Word 3 Data Readout XX4XXX - (Continued)

Procedure	No	Yes
<p>t. Do substeps listed below:</p> <p>(1) Open door 504 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(3) Does continuity exist between:</p> <p>61P-W095A pin KK and 61P-W012D pin g  61P-W095A pin HH and 61P-W012D pin C  61P-W095A pin BB and 61P-W012D pin p? .....</p>	q	r
<p>u. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable, does continuity exist between:</p> <p>61P-W095A pin KK and 61P-W093 pin 41  61P-W095A pin HH and 61P-W093 pin 39  61P-W095A pin BB and 61P-W093 pin 43? .....</p>	c	r
<p>v. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  (A1-F18AC-740-300, WP009 00) and do step w .....</p>	-	-
<p>w. If disconnected, removed or opened during this procedure, make sure items listed below  are connected, installed or closed:</p> <p>(1) Aircraft Wing Pylon SUU-63( )</p> <p>(2) 61P-W012D</p> <p>(3) 61P-W093</p> <p>(4) 61P-W095A</p> <p>(5) 61P-W095B</p> <p>(6) Doors 502 and 504 .....</p>	-	-

Table 3. Station 2, 3, 7, 8 Word 3 Data Readout XX1XXX or XX2XXX

Support Equipment Required				
Part Number or Type Designation	Nomenclature			
77/BN	Multimeter			
Materials Required				
None				
NOTE				
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.				
Component locations are shown in WP007 00.				
Malfunction is caused by one of the items listed below:				
Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)				
Procedure	No	Yes		
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;"> <b>NOTE</b> </div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield Continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect launcher by pass adapter cable from 61P-W095A and 61P-W095B (failed station).</li> </ol>				

**Table 3. Station 2, 3, 7, 8 Word 3 Data Readout XX1XXX or XX2XXX (Continued)**

Procedure	No	Yes
(3) Open door 504 (failed station) (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Does continuity exist from 61P-W012D pin EE? . . . . .	b	e
b. Do substeps listed below:		
(1) Disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable does continuity exist between 61P-W095B pin u and 61P-W093 pin 76? . . . . .	c	d
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f . . . . .	-	-
d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f . . . . .	-	-
e. Replace failed station Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (failed station) (A1-F18AC-740-300, WP009 00) and do step f . . . . .	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 61P-W012D		
(2) 61P-W093		
(3) Doors 504 and 502 . . . . .	-	-

**Table 4. Station 2, 3, 7, 8 Word 3 Data Readout XXX4XX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 4. Station 2, 3, 7, 8 Word 3 Data Readout XXX4XX (Continued)**

NOTE		
<p>Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )</p> <p>LAU-115 Jumper Cable W56235</p> <p>Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect launcher by pass adapter cable (failed station) from 61P-W095A and 61P-W095B.</p> <p>(3) Open door 504 (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(5) Does continuity exist between:</p> <p style="padding-left: 40px;">61P-W095B pin A and 61P-W012D pin X</p> <p style="padding-left: 40px;">61P-W095B pin u and 61P-W012D pin EE .....</p>		
	b	d

**Table 4. Station 2, 3, 7, 8 Word 3 Data Readout XXX4XX (Continued)**

Procedure	No	Yes
b. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable, does continuity exist between:		
61P-W095B pin A and 61P-W093 pin 69		
61P-W095B pin u and 61P-W093 pin 76 .....	c	d
c. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step f .....	-	-
d. Replace Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f .....	-	-
e. Replace Aircraft Wing Pylon, SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 61P-W012D		
(2) 61P-W093		
(3) Doors 504 and 502 .....	-	-

**Table 5. Station 7/8 Word 1 Data Readout X25252 -**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 7 Power Control Schematic, Weapon Station 8 Power Control Schematic and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP032 00, WP033 00 and WP043 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	

**Table 5. Station 7/8 Word 1 Data Readout X25252 - (Continued)**

Aircraft Wing Pylon SUU-63( ) Aircraft Wiring LAU-115 Jumper Cable W56235 No. 10 Relay Panel Assembly Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"><b>WARNING</b></div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"><b>CAUTION</b></div> <p>To prevent damage to multimeter during stray voltage testing observe the list below:</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li> </ol> <div style="text-align: center; padding: 10px 0;"><b>NOTE</b></div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
a. Do substeps listed below: <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.</li> <li>(3) Turn on electrical power (A1-F18AC-LMM-000).</li> <li>(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</li> </ol>		

Table 5. Station 7/8 Word 1 Data Readout X25252 - (Continued)

Procedure	No	Yes
(5) Does stray voltage exist between:		
61P-W095B pin LL and aircraft ground		
61P-W095B pin DD and aircraft ground? .....	b	n
b. Does stray voltage exist between 61P-W095B pin C and aircraft ground? .....	c	k
c. Does stray voltage exist between:		
61P-W095A pin A and aircraft ground		
61P-W095A pin B and aircraft ground		
61P-W095A pin C and aircraft ground		
61P-W095A pin JJ and aircraft ground		
61P-W095B pin R and aircraft ground? .....	d	i
d. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from J4 on encoder-decoder.		
(4) Does continuity exist between:		
61P-W095A pin G and 61P-W012D pin W		
61P-W095A pin D and 61P-W012D pin HH		
61P-W095A pin f and 61P-W012D pin N		
61P-W095A pin x and 61P-W012D pin X		
61P-W095B pin R and 61P-W012D pin F? .....	e	h
e. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable, does continuity exist between:		
61P-W095A pin G and 61P-W093 pin 6		
61P-W095A pin D and 61P-W093 pin 2		
61P-W095A pin f and 61P-W093 pin 21		
61P-W095A pin X and 61P-W093 pin 25		
61P-W095B pin R and 61P-W093 pin 4? .....	f	g
f. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step x .....	-	-
g. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step x .....	-	-



Table 5. Station 7/8 Word 1 Data Readout X25252 - (Continued)

Procedure	No	Yes
h. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step x .....	-	-
i. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from J4 on encoder-decoder.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
61P-W095A pin A and aircraft ground		
61P-W095A pin B and aircraft ground		
61P-W095A pin C and aircraft ground		
61P-W095A pin JJ and aircraft ground		
61P-W095B pin R and aircraft ground? .....	h	j
j. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W093 from 61J-W093.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
61P-W012D pin G and aircraft ground		
61P-W012D pin H and aircraft ground		
61P-W012D pin a and aircraft ground		
61P-W012D pin FF and aircraft ground		
61P-W012D pin F and aircraft ground? .....	f	g
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		

Table 5. Station 7/8 Word 1 Data Readout X25252 - (Continued)

Procedure	No	Yes
(2) In door 502, disconnect 61P-W093 from 61J-W093.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 61J-W093 pin 12 and aircraft ground? .....	f	l
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove failed station Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP054 00).		
(3) On failed station does continuity exist between:		
Station 7: 52J-V067 pin 47 and aircraft ground		
Station 8: 52J-V068 pin 47 and aircraft ground? .....	m	g
m. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step x .....	-	-
n. Is stray voltage 115vac? .....	p	o
o. Do applicable troubleshooting for failed station listed below:		
Station 7: table 3, WP027 20		
Station 8: table 2, WP027 20		
Do step x .....	-	-
p. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W093 from 61J-W093.		
(3) On LAU-115 jumper cable, does continuity exist between:		
61P-W095B pin LL and 61P-W093 pins 9 and 68		
61P-W095B pin DD and 61P-W093 pins 56 and 57? .....	f	q
q. Do substeps listed below:		
(1) Remove failed station Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn on electrical power (A1-F18AC-LMM-000).		

Table 5. Station 7/8 Word 1 Data Readout X25252 - (Continued)

Procedure	No	Yes
(3) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(4) On failed station does stray voltage exist between:		
Station 7: 52J-V067 pin 95 and aircraft ground		
Station 8: 52J-V068 pin 95 and aircraft ground? .....	r	s
r. Does stray voltage exist between:		
Station 7		
52J-V067 pin 87 and aircraft ground		
52J-V067 pin 82 and aircraft ground		
Station 8		
52J-V068 pin 87 and aircraft ground		
52J-V068 pin 82 and aircraft ground? .....	g	m
s. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 79R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-V044C from no. 10 relay panel assembly.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Is failed station 8? .....	t	v
t. Does stray voltage exist between 52P-V044C pin f and aircraft ground? .....	u	m
u. Isolate malfunction between no. 10 relay panel assembly wiring and station 7 power control relay (61K-V127) (A1-F18AC-420-300, WP042 00) and do step x .....	-	-
v. Does stray voltage exist between 52P-V044C pin a and aircraft ground? .....	w	m
w. Isolate malfunction between no. 10 relay panel assembly wiring and station 8 power control relay (61K-V128) (A1-F18AC-420-300, WP042 00) and do step x .....	-	-
x. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-V044C		

Table 5. Station 7/8 Word 1 Data Readout X25252 - (Continued)

Procedure	No	Yes
(2) 61P-W012D		
(3) 61P-W093		
(4) 61P-W095A		
(5) 61P-W095B		
(6) Aircraft Wing Pylon SUU-63( )		
(7) Doors 79R, 502, and 504 .....	-	-

Table 6. Station 7/8 Word 1 Data Readout  
X2XXXX or Word 3 Data Readout XXXX1X -

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 7 Power Control Schematic, Weapon Station 8 Power Control Schematic and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP032 00, WP033 00 and WP043 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
LAU-115 Jumper Cable W56235	
No. 10 Relay Panel Assembly	
Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

**Table 6. Station 7/8 Word 1 Data Readout  
X2XXXX or Word 3 Data Readout XXXX1X - (Continued)**

Procedure	No	Yes
<div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px auto; width: 150px;"> <b>WARNING</b> </div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px auto; width: 150px;"> <b>CAUTION</b> </div> <p>To prevent damage to multimeter during stray voltage testing observe the list below.</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li> </ol> <p align="center"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect launcher by-pass adapter cable from 61P-W095A and 61P-W095B.</li> <li>(3) Turn on electrical power (A1-F18AC-LMM-000).</li> <li>(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</li> <li>(5) Does stray voltage exist between:               <div style="margin-left: 40px;">                 61P-W095B pin LL and aircraft ground                  61P-W095B pin DD and aircraft ground? .....               </div> </li> </ol> <p>b. Does stray voltage exist between:</p> <div style="margin-left: 40px;">             61P-W095A pin A and aircraft ground              61P-W095A pin B and aircraft ground              61P-W095A pin C and aircraft ground           </div>		
	b	k

**Table 6. Station 7/8 Word 1 Data Readout  
X2XXXX or Word 3 Data Readout XXXX1X - (Continued)**

Procedure	No	Yes
61P-W095A pin JJ and aircraft ground 61P-W095B pin R and aircraft ground? .....	c	h
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W093 from 61J-W093.		
(3) Does continuity exist between:		
61J-W093 pin 50 and aircraft ground		
61J-W093 pin 12 and aircraft ground? .....	d	g
d. Do substeps listed below:		
(1) Remove failed station Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) On failed station does continuity exist between:		
Station 7		
52J-V067 pin 35 and aircraft ground		
52J-V067 pin 47 and aircraft ground		
Station 8		
52J-V068 pin 35 and aircraft ground		
52J-V068 pin 47 and aircraft ground? .....	e	f
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step w .....	-	-
f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step w .....	-	-
g. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step w .....	-	-
h. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 594 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from J4 on encoder-decoder.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
61P-W095A pin A and aircraft ground		
61P-W095A pin B and aircraft ground		
61P-W095A pin C and aircraft ground		
61P-W095A pin JJ and aircraft ground		

**Table 6. Station 7/8 Word 1 Data Readout  
X2XXXX or Word 3 Data Readout XXXX1X - (Continued)**

Procedure	No	Yes
61P-W095B pin R and aircraft ground? .....	i	j
i. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step w .....	-	-
j. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W093 from 61J-W093.		
(3) On LAU-115 jumper cable, does continuity exist between:		
61P-W095A pin A and 61P-W093 pin 24		
61P-W095A pin B and 61P-W093 pin 23		
61P-W095A pin C and 61P-W093 pin 33		
61P-W095A pin JJ and 61P-W093 pin 38		
61P-W095B pin R and 61P-W093 pin 4? .....	g	f
k. Is stray voltage 115vac? .....	l	v
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W093 from 61J-W093.		
(3) On LAU-115 jumper cable, does continuity exist between:		
61P-W095B pin LL and 61P-W093 pins 9 and 68		
61P-W095B pin DD and 61P-W093 pins 56 and 67? .....	g	m
m. Do substeps listed below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Is failed station 8? .....	n	r
n. Does continuity exist between:		
52J-V067 pin 87 and aircraft ground		
52J-V067 pin 82 and aircraft ground? .....	e	o
o. Do substeps listed below:		
(1) Turn on electrical power (A1-F18AC-LMM-000).		
(2) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(3) Does stray voltage exist between 52J-V067 pin 95 and aircraft ground? .....	f	p
p. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		

**Table 6. Station 7/8 Word 1 Data Readout  
X2XXXX or Word 3 Data Readout XXXX1X - (Continued)**

Procedure	No	Yes
(2) Open door 79R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-V044C from no. 10 relay panel assembly.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 52P-V044C pin f and aircraft ground? .....	q	e
q. Isolate malfunction between no. 10 relay panel assembly wiring and station 7 power control relay (61K-V127) (A1-F18AC-420-300, WP042 00) and do step w .....	-	-
r. Does continuity exist between:		
52J-V068 pin 87 and aircraft ground		
52J-V068 pin 82 and aircraft ground? .....	e	s
s. Do substeps listed below:		
(1) Turn on electrical power (A1-F18AC-LMM-000).		
(2) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(3) Does stray voltage exist between 52J-V068 pin 95 and aircraft ground? .....	f	t
t. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 79R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-V044C from no. 10 relay panel assembly.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 52P-V044C pin a and aircraft ground? .....	u	e
u. Isolate malfunction between no. 10 relay panel assembly wiring and station 8 power control relay (61K-V128) (A1-F18AC-420-300, WP042 00) and do step w .....	-	-
v. Do applicable troubleshooting for failed station listed below:		
Station 7: table 3, WP027 20		
Station 8: table 2A, WP027 20		
Do step w .....	-	-



Table 6. Station 7/8 Word 1 Data Readout  
X2XXXX or Word 3 Data Readout XXXX1X - (Continued)

Procedure	No	Yes
w. If disconnected, removed or opened during this procedure, make sure items listed below are connected, installed or closed:		
(1) 52P-V044C		
(2) 61P-W012D		
(3) 61P-W093		
(4) 61P-W095A		
(5) 61P-W095B		
(6) Aircraft Wing Pylon SUU-63( )		
(7) Doors 79R, 502, and 504 .....	-	-



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 WEAPON SYSTEM END TO END TEST, PART 5

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 161925 AND UP; ALSO 161353 THRU 161924 AFTER F/A-18 AFC 74

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control System .....	A1-F18AC-740-200
Stores Management System Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorpo- ration of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Station 4 Word 1 Data Readout X1XX1X


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

Table 1. Station 4 Word 1 Data Readout X1XX1X (Continued)

Procedure	No	Yes
(2) Disconnect tester from 61P-Y203C. (LAU-116 umbilical connector).		
(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin D and 61P-P014A pin 4? . . . . .	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-P064B <input type="checkbox"/> 1 pin b or <input type="checkbox"/> 2 pin r and 61P-P014A pin 4? . .	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f . . . . .	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f . . . . .	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f . . . . .	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) 61P-Y203C		
(4) Door 45L . . . . .	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p><input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 2. Station 4 Word 1 Data Readout XXX42X OR XXX2XX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

Table 2. Station 4 Word 1 Data Readout XXX42X OR XXX2XX (Continued)

Procedure	No	Yes
(2) Disconnect tester from 61P-Y203C (LAU-116 umbilical connector).		
(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder		
(4) Does continuity exist between 61P-Y203C pin e and 61P-P014A pin 10? .....	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 61P-P014A pin 10 and 52P-P064B <input type="checkbox"/> pin k or <input type="checkbox"/> pin s? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) Door 45L .....	-	-
<b>LEGEND</b> <input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 3. Station 4 Word 1 Data Readout XXX525


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		



Table 3. Station 4 Word 1 Data Readout XXX525 (Continued)

Procedure	No	Yes
<p>(2) Disconnect tester from 61P-Y203C (LAU-116 umbilical connector).</p> <p>(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.</p> <p>(4) Does continuity exist between:</p> <p>61P-Y203C pin S and 61P-P014A pin 85  61P-Y203C pin e and 61P-P014A pin 10  61P-Y203C pin J and 61P-P014A pin 37  61P-Y203C pin K and 61P-P014A pin 83  61P-Y203C pin P and 61P-P014A pin 17? .....</p>	b	d
<p>b. Do substeps listed below:</p> <p>(1) Open door 45L (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).</p> <p>(3) Does continuity exist between:</p> <p>61P-P014A pin 85 and 52P-P064B <input type="checkbox"/> pin T, or <input type="checkbox"/> pin q  61P-P014A pin 10 and 52P-P064B <input type="checkbox"/> pin k or <input type="checkbox"/> pin s  61P-P014A pin 37 and 52P-P064B <input type="checkbox"/> pin U or <input type="checkbox"/> pin b  61P-P014A pin 83 and 52P-P064B <input type="checkbox"/> pin E or <input type="checkbox"/> pin K  61P-P014A pin 17 and 52P-P064B <input type="checkbox"/> pin S or <input type="checkbox"/> pin p? .....</p>	c	f
<p>c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h .....</p>	-	-
<p>d. Do substeps listed below:</p> <p>(1) In left main landing gear door, disconnect 61P-P014B from J2 on encoder-decoder.</p> <p>(2) Does continuity exist between 61P-Y203C pin E and 61P-P014B <input type="checkbox"/> pin 11,  or <input type="checkbox"/> pin 19? .....</p>	e	g
<p>e. Do substeps listed below:</p> <p>(1) Open door 45L (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).</p> <p>(3) Does continuity exist between 61P-P014B <input type="checkbox"/> pin 11, or <input type="checkbox"/> pin L and  52P-P064B pin F? .....</p>	c	f

Table 3. Station 4 Word 1 Data Readout XXX525 (Continued)

Procedure	No	Yes
f. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step h . . . . .	-	-
g. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step h . . . . .	-	-
h. If disconnected, removed or opened during this procedure make sure the items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) 61P-P014B		
(4) 61P-Y203C		
(5) Door 45L . . . . .	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p>1 ➡ On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p>2 ➡ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 4. Station 4 Word 1 Data Readout X12XXX

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	

**Table 4. Station 4 Word 1 Data Readout X12XXX (Continued)**


Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect tester from 61P-Y203C (LAU-116 umbilical connector).</li> <li>(3) Install a jumper wire from 61P-Y203C pin a to aircraft ground.</li> <li>(4) Turn on electrical power (A1-F18AC-LMM-000).</li> <li>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</li> <li>(6) On left and right Digital Display Indicators IP-1317/A (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.</li> <li>(7) On RDDI: <ol style="list-style-type: none"> <li>(a) Press MENU pushbutton switch.</li> <li>(b) Press STORES pushbutton switch.</li> <li>(c) Does RDDI display 1 7F and missile symbol on stores display? .....</li> </ol> </li> </ol>		
	b	c

Table 4. Station 4 Word 1 Data Readout X12XXX (Continued)

Procedure	No	Yes
b. Do table 2, WP010 25  c. Do substeps listed below: (1) Turn off electrical power (A1-F18AC-LMM-000). (2) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder. (3) Does continuity exist between: 61P-Y203C pin D and 51P-P014A pin 4 61P-Y203C pin d and 61P-P014A pin 9? .....	d	f
d. Do substeps listed below: (1) Open door 45L (A1-F18AC-LMM-010). (2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116). (3) Does continuity exist between: 61P-P014A pin 4 and 52P-P064B <input type="checkbox"/> pin b, or <input type="checkbox"/> pin r 61P-P014A pin 9 and 52P-P064B <input type="checkbox"/> pin m, or <input type="checkbox"/> pin t .....	e	g
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h .....	-	-
f. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step h .....	-	-
g. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step h .....	-	-
h. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed.  (1) 52P-P064B (2) 61P-P014A (3) 61P-Y203C (4) Door 45L (5) Remove jumper wire (61P-Y203C) .....	-	-
<b>LEGEND</b> <input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 5. Station 4 Word 1 Data Readout X25252 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Guided Missile Launcher LAU-116( )</p> <p>Aircraft Wiring</p> <p>Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p> <p>No. 7 Circuit Breaker Relay Panel Assembly</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div> </div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>CAUTION</b></div> </div> <p>To prevent damage to multimeter during stray voltage testing observe the list below:</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li> </ol> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

**Table 5. Station 4 Word 1 Data Readout X25252 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(4) Does continuity exist between:		
61P-Y203C pin D and 61P-P014A pin 4		
61P-Y203C pin d and 61P-P014A pin 9		
61P-Y203C pin J and 61P-P014A pin 37		
61P-Y203C pin K and 61P-P014A pin 83? .....	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between:		
52P-P064B pin b and 61P-P014A pin 4		
52P-P064B pin m and 61P-P014A pin 9		
52P-P064B pin U and 61P-P014A pin 37		
52P-P064B pin E and 61P-P014A pin 83? .....	c	f
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step t .....	-	-
d. Do substeps listed below:		
(1) In left main landing gear door, disconnect 61P-P014B from J2 on encoder-decoder.		
(2) Does continuity exist between 61P-Y203C pin E and 61P-P014B pin 11? .....	e	g

**Table 5. Station 4 Word 1 Data Readout X25252 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
e. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-P064B pin F and 61P-P014B pin 11? .....	c	f
f. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step t .....	-	-
g. Do substeps listed below:		
(1) In left main landing gear door, connect:		
61P-P014A to J1 on encoder-decoder		
61P-P014B to J2 on encoder-decoder		
(2) Open door 45L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
52P-P064B pin e and aircraft ground		
52P-P064B pin c and aircraft ground? .....	h	k
h. Does stray voltage exist between:		
52P-P064B pin U and aircraft ground		
52P-P064B pin r and aircraft ground .....	i	p
i. Does stray voltage exist between 52P-P064B pin g and aircraft ground? .....	j	c
j. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 45L, disconnect 52P-P064A from 61J-Y200A (J1 on LAU-116).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		

**Table 5. Station 4 Word 1 Data Readout X25252 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
52P-P064A pin A and aircraft ground		
52P-P064A pin B and aircraft ground		
52P-P064A pin C and aircraft ground		
52P-P064A pin D and aircraft ground		
52P-P064A pin G and aircraft ground? .....	l	r
k. Is stray voltage 115vac? .....	l	o
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 52P-P064B pin c and aircraft ground? .....	c	m
m. Do substeps listed below:		
(1) Open door 10L (A1-F18AC-LMM-000).		
(2) Disconnect 52P-C057C from 52J-C057C.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 52P-C057C pin g and aircraft ground? .....	n	c
n. Isolate malfunction between No. 7 Circuit Breaker/Relay Panel Assembly and 61K-C124 Station 4 Power Control relay (A1-F18AC-420-300, WP027 00) and do step t .....	-	-
o. Do table 2, WP027 19 .....	-	-
p. Malfunction is caused by one of the items listed below:		
(1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).		
(2) Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
(3) Do step t .....	-	-
q. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		



**Table 5. Station 4 Word 1 Data Readout X25252 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(2) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(5) Does stray voltage exist between:</p> <p>52P-P064B pin U and aircraft ground</p> <p>52P-P064B pin r and aircraft ground? .....</p>	r	c
<p>r. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step t .....</p>	-	-
<p>s. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In left main landing gear door, disconnect 61P-P014C from J3 on encoder-decoder.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(5) Does stray voltage exist between:</p> <p>52P-P064A pin A and aircraft ground</p> <p>52P-P064A pin B and aircraft ground</p> <p>52P-P064A pin C and aircraft ground</p> <p>52P-P064A pin D and aircraft ground</p> <p>52P-P064A pin G and aircraft ground? .....</p>	m	c
<p>t. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:</p> <p>(1) 52P-C057C</p> <p>(2) 52P-P064A</p> <p>(3) 52P-P064B</p> <p>(4) 61P-P014A</p> <p>(5) 61P-P014B</p> <p>(6) 61P-P014C</p> <p>(7) Door 10L</p> <p>(8) Door 45L .....</p>	-	-

**Table 5A. Station 4 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>  None		
<b>NOTE</b>  Weapon Station 4 Power Control Schematic and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP029 02 and WP044 00) may be used as an aid when doing this procedure.  Component locations are shown in WP007 00.  Malfunction is caused by one of the items listed below:  Aircraft Guided Missile Launcher LAU-116 ( ) Aircraft Wiring Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V). No. 11 Relay Panel Assembly		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div> </div> <p style="text-align: center;">To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>CAUTION</b></div> </div> <p style="text-align: center;">To prevent damage to multimeter during stray voltage testing observe the list below:</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li> </ol>		

**Table 5A. Station 4 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
The question used in logic tree "Does continuity exist" means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
Bent/recessed pins in connectors are a common cause of stray voltage.		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder		
(4) Does continuity exist between:		
61P-Y203C pin D and 61P-P014A pin 4		
61P-Y203C pin d and 61P-P014A pin 9		
61P-Y203C pin J and 61P-P014A pin 37		
61P-Y203C pin K and 61P-P014A pin 83? .....	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116)		
(3) Does continuity exist between:		
52P-P064B pin r and 61P-P014A pin 4		
52P-P064B pin t and 61P-P014A pin 9		
52P-P064B pin b and 61P-P014A pin 37		
52P-P064B pin K and 61P-P014A pin 83? .....	c	f
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step t .....	-	-
d. Do substeps listed below:		
(1) In left main landing gear door, disconnect 61P-P014B from J2 on encoder-decoder.		
(2) Does continuity exist between 61P-Y203C pin E and 61P-P014B pin 19? .....	e	g

**Table 5A. Station 4 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
e. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-P064B pin L and 61P-P014B pin 19? .....	c	f
f. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step t .....	-	-
g. Do substeps listed below:		
(1) In left main landing gear door, connect:		
61P-P014A to J1 on encoder-decoder		
61P-P014B to J2 on encoder-decoder		
(2) Open door 45L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
52P-P064B pin FF and aircraft ground		
52P-P064B pin LL and aircraft ground? .....	h	k
h. Does stray voltage exist between:		
52P-P064B pin b and aircraft ground		
52P-P064B pin d and aircraft ground .....	i	q
i. Does stray voltage exist between 52P-P064B pin C and aircraft ground? .....	j	c
j. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 45L, disconnect 52P-P064A from 61J-Y200A (J1 on LAU-116).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		

**Table 5A. Station 4 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(5) Does stray voltage exist between:  52P-P064A pin A and aircraft ground 52P-P064A pin B and aircraft ground 52P-P064A pin C and aircraft ground 52P-P064A pin D and aircraft ground 52P-P064A pin G and aircraft ground? .....	p	s
k. Is stray voltage 115vac? .....	l	o
l. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Does continuity exist between 52P-P064B pin LL and aircraft ground? .....	c	m
m. Do substeps listed below:  (1) Open door 79L (A1-F18AC-LMM-000).  (2) Disconnect 52P-U045A from no. 11 relay panel assembly.  (3) Turn on electrical power (A1-F18AC-LMM-000).  (4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.  (5) Does stray voltage exist between 52P-U045A pin T and aircraft ground? .....	n	c
n. Isolate malfunction between No. 11 Relay Panel Assembly and Station 4 Power Control relay (61K-U124) (A1-F18AC-420-300, WP043 00) and do step t .....	-	-
o. Do table 2A, WP027 19 .....	-	-
p. Malfunction is caused by one of the items listed below:  (1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).  (2) Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).  (3) Do step t .....	-	-
q. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		

**Table 5A. Station 4 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(5) Does stray voltage exist between:</p> <p>52P-P064B pin b and aircraft ground</p> <p>52P-P064B pin d and aircraft ground? . . . . .</p>	r	c
<p>r. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step t . . . . .</p>	-	-
<p>s. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In left main landing gear door, disconnect 61P-P014C from J3 on encoder-decoder.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(5) Does stray voltage exist between:</p> <p>52P-P064A pin A and aircraft ground</p> <p>52P-P064A pin B and aircraft ground</p> <p>52P-P064A pin C and aircraft ground</p> <p>52P-P064A pin D and aircraft ground</p> <p>52P-P064A pin G and aircraft ground? . . . . .</p>	r	c
<p>t. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:</p> <p>(1) 52P-P064A</p> <p>(2) 52P-P064B</p> <p>(3) 52P-U045A</p> <p>(4) 61P-P014A</p> <p>(5) 61P-P014B</p> <p>(6) 61P-P014C</p> <p>(7) 61P-Y203C</p> <p>(8) Door 45L</p> <p>(9) Door 79L . . . . .</p>	-	-

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 WEAPON SYSTEM END TO END TEST, PART 6

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 161925 AND UP; ALSO 161353 THRU 161924 AFTER F/A-18 AFC 74

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control System .....	A1-F18AC-740-200
Stores Management System Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorpo- ration of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**Table 1. Station 4 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Aircraft Guided Missile Launcher LAU-116( )  Aircraft Wiring  Left Fuselage Command Signal Encoder-Decoder KY-853/AYQ-9(V)  No. 7 Circuit Breaker/Relay Panel Assembly</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 20px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div> </div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; margin-bottom: 20px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>CAUTION</b></div> </div> <p>To prevent damage to multimeter during stray voltage testing observe the list below:</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li> </ol> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		



**Table 1. Station 4 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 45L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-P064B from 61Y-200B (J2 on LAU-116).		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
52P-P064B pin e and aircraft ground		
52P-P064B pin c and aircraft ground? .....	b	f
b. Does stray voltage exist between:		
52P-P064B pin U and aircraft ground		
52P-P064B pin r and aircraft ground? .....	c	k
c. Does stray voltage exist between 52P-P064B pin g and aircraft ground .....	d	m
d. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 45L, disconnect 52P-P064A from 61J-Y200A (J1 on LAU-116).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		

**Table 1. Station 4 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
52P-P064A pin A and aircraft ground		
52P-P064A pin B and aircraft ground		
52P-P064A pin C and aircraft ground		
52P-P064A pin D and aircraft ground		
52P-P064A pin G and aircraft ground? .....	e	n
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step o .....	-	-
f. Is stray voltage 115vac? .....	g	j
g. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 52P-P064B pin c and aircraft ground? .....	m	h
h. Do substeps listed below:		
(1) Open door 10L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-C057C from 52J-C057C.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 52P-C057C pin g and aircraft ground? .....	i	m
i. Isolate malfunction between No. 7 Circuit Breaker/Relay Panel Assembly and 61K-C124 Station 4 Power Control Relay (A1-F18AC-420-300, WP027 00) and do step o .....	-	-
j. Do table 2, WP027 19 .....	-	-
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		



**Table 1A. Station 4 Word 1 Data Readout X2XXXXX or Word 3 Data Readout XXXX1X - F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 4 Power Control Schematic and Weapon Station 4, 6 AIM-7 Sparrow Schematic A1-F18AC-740-500, WP029 02 and WP044 02) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Aircraft Guided Missile Launcher LAU-116( )</p> <p style="margin-left: 40px;">Aircraft Wiring</p> <p style="margin-left: 40px;">Fuselage Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p> <p style="margin-left: 40px;">No. 11 Relay Panel Assembly</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div> </div> <p style="text-align: center;">To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>CAUTION</b></div> </div> <p style="text-align: center;">To prevent damage to multimeter during stray voltage testing observe the list below:</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li> </ol>		

**Table 1A. Station 4 Word 1 Data Readout X2XXXXX or Word 3 Data Readout XXXX1X - F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 45L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
52P-P064B pin FF and aircraft ground		
52P-P064B pin LL and aircraft ground? .....	b	f
b. Does stray voltage exist between:		
52P-P064B pin b and aircraft ground		
52P-P064B pin d and aircraft ground? .....	c	k
c. Does stray voltage exist between 52P-P064B pin C and aircraft ground .....	d	m
d. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 45L, disconnect 52P-P064A from 61J-Y200A (J1 on LAU-116).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		

**Table 1A. Station 4 Word 1 Data Readout X2XXXXX or Word 3 Data Readout XXXX1X - F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(5) Does stray voltage exist between:  52P-P064A pin A and aircraft ground 52P-P064A pin B and aircraft ground 52P-P064A pin C and aircraft ground 52P-P064A pin D and aircraft ground 52P-P064A pin G and aircraft ground? .....	e	n
e. Replace Aircraft Guided Missile Launcher LAU-116 ( ) (A1-F18AC-740-300, WP026 00) and do step o .....	-	-
f. Is stray voltage 115vac? .....	g	j
g. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Does continuity exist between 52P-P064B pin LL and aircraft ground? .....	m	h
h. Do substeps listed below:  (1) Open door 79L (A1-F18AC-LMM-010). (2) Disconnect 52P-U045A from no. 11 relay panel assembly. (3) Turn on electrical power (A1-F18AC-LMM-000). (4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.  (5) Does stray voltage exist between 52P-U045A pin T and aircraft ground? .....	i	m
i. Isolate malfunction between No. 11 Circuit Breaker/Relay Panel Assembly and Station 4 Power Control Relay (61K-U124) (A1-F18AC-420-300, WP043 00) and do step o .....	-	-
j. Do table 2A (WP027 19) .....	-	-
k. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000). (2) In left main landing gear door, disconnect 61P-P014C from J1 on encoder-decoder. (3) Turn on electrical power (A1-F18AC-LMM-000). (4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.  (5) Does stray voltage exist between:  52P-P064B pin b and aircraft ground 52P-P064B pin d and aircraft ground? .....	l	m

**Table 1A. Station 4 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
l. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step o? .....	-	-
m. Isolate defective aircraft wiring (A1-F18( )-WDM-000) and do step o .....	-	-
n. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In left main landing gear door, disconnect 61P-P014C from J3 on encoder-decoder.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
52P-P064A pin A and aircraft ground		
52P-P064A pin B and aircraft ground		
52P-P064A pin C and aircraft ground		
52P-P064A pin D and aircraft ground		
52P-P064A pin G and aircraft ground? .....	l	m
o. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064A		
(2) 52P-P064B		
(3) 52P-U045A		
(4) 61P-P014A		
(5) 61P-P014C		
(6) 61P-Y203C		
(7) Door 45L		
(8) Door 79L .....	-	-

Table 2. Station 4 Word 1 Data Readout X1XXXX or XX4XXX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div style="display: flex; justify-content: space-between;"><div><p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p><p>(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).</p></div><div style="border-left: 1px solid black; height: 100px; width: 50px;"></div><div style="border-left: 1px solid black; height: 100px; width: 50px;"></div></div>		



Table 2. Station 4 Word 1 Data Readout X1XXXX or XX4XXX (Continued)

Procedure	No	Yes
(3) Install a jumper wire between 61P-Y203C pin a and aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators IP-1317/A (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.		
(7) On RDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
(c) Does RDDI display 1 7F and missile symbol on stores display? .....	b	c
b. Do table 2 (WP010 25) .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(3) Does continuity exist between 61P-Y203C pin D and 61P-P014A pin 4? .....	d	f
d. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-P064B <input type="checkbox"/> pin b or <input type="checkbox"/> pin r and 61P-P014A pin 4? .....	e	g
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h .....	-	-
f. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step h .....	-	-
g. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step h .....	-	-

**Table 2. Station 4 Word 1 Data Readout X1XXXX or XX4XXX (Continued)**

Procedure	No	Yes
h. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) Door 45L		
(4) Remove jumper wire (61P-Y203C) .....	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p>1 ➔ On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p>2 ➔ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

**Table 3. Station 4 Word 1 Data Readout XX1XXX or XX2XXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-116( )	
Aircraft Wiring	
Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	

Table 3. Station 4 Word 1 Data Readout XX1XXX or XX2XXX (Continued)


Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin d and 61P-P014A pin 9? .....	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-000).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-P064B <input type="checkbox"/> pin m or <input type="checkbox"/> pin t and 61P-P014A pin 9? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-

Table 3. Station 4 Word 1 Data Readout XX1XXX or XX2XXX (Continued)

Procedure	No	Yes
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) 61P-Y203C		
(4) Door 45L .....	-	-
<b>LEGEND</b> <input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 4. Station 4 Word 1 Data Readout XXX4XX

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
<p>Weapon Station 4 Power Control Schematic (A1-F18AC-740-500, WP029 00), and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Guided Missile Launcher LAU-116( )  Aircraft Wiring  Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p>	

Table 4. Station 4 Word 1 Data Readout XXX4XX (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) Install a jumper wire between 61P-Y203C pin a and aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On snsr pod control box panel assembly, set RADAR switch to STBY.		
(7) Does 115vac exist between:		
61P-Y203C pin W (φ B) and 61P-Y203C pin A (115vac return)		
61P-Y203C pin X (φ C) and 61P-Y203C pin A (115vac return)? .....	b	c
b. Do table 2, WP027 19 .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		

Table 4. Station 4 Word 1 Data Readout XXX4XX (Continued)

Procedure	No	Yes
<p>(3) Does continuity exist between:</p> <p>61P-Y203C pin S and 61P-P014A pin 85  61P-Y203C pin e and 61P-P014A pin 10? .....</p> <p>d. Do substeps listed below:</p> <p>(1) Open door 45L (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).</p> <p>(3) Does continuity exist between:</p> <p>52P-P064B <input type="checkbox"/> pin T or <input type="checkbox"/> pin q and 61P-P014A pin 85  52P-P064B <input type="checkbox"/> pin k or <input type="checkbox"/> pin s and 61P-P014A pin 10? .....</p> <p>e. Isolate defective aircraft wiring (A1-F18( )-WDM-000) and do step j .....</p> <p>f. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step j .....</p> <p>g. Do substeps listed below:</p> <p>(1) Open door 45L (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).</p> <p>(3) Does continuity exist between:</p> <p>61P-Y203C pin F and 61J-Y200B <input type="checkbox"/> pin p or <input type="checkbox"/> pin c  61P-Y203C pin F and 61J-Y200B <input type="checkbox"/> pin q or <input type="checkbox"/> pin x  61P-Y200C pin N and 61J-Y200B <input type="checkbox"/> pin M or <input type="checkbox"/> pin w  61P-Y200C pin N and 61J-Y200B <input type="checkbox"/> pin N or <input type="checkbox"/> pin GG? .....</p> <p>h. Does continuity exist between:</p> <p>52P-P064B <input type="checkbox"/> pin M or <input type="checkbox"/> pin w and aircraft ground  52P-P064B <input type="checkbox"/> pin N or <input type="checkbox"/> pin GG and aircraft ground  52P-P064B <input type="checkbox"/> pin p or <input type="checkbox"/> pin c and aircraft ground  52P-P064B <input type="checkbox"/> pin q or <input type="checkbox"/> pin x and aircraft ground? .....</p> <p>i. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step j .....</p> <p>j. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:</p> <p>(1) 52P-P064B</p>	<p>d</p> <p>e</p> <p>-</p> <p>-</p> <p>f</p> <p>f</p> <p>e</p> <p>-</p> <p>-</p>	<p>g</p> <p>f</p> <p>-</p> <p>-</p> <p>h</p> <p>i</p> <p>-</p> <p>-</p>


Table 4. Station 4 Word 1 Data Readout XXX4XX (Continued)

Procedure	No	Yes
(2) 61P-P014A		
(3) 61P-Y203C		
(4) Door 45L		
(5) Remove jumper wire (61P-Y203C) .....	-	-
<b>LEGEND</b> <input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 5. Station 4 Word 1 Data Readout XXX1XX or XXXX4X

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	

Table 5. Station 4 Word 1 Data Readout XXX1XX or XXXX4X (Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In left main landing gear door, disconnect 61P-P014B from J2 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin E and 61P-P014B <input type="checkbox"/> pin 11 or <input type="checkbox"/> 19? .....	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-000).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between <input type="checkbox"/> 52P-P064B pin F and 61P-P014B pin 11 or <input type="checkbox"/> 52P-P064B pin L and 61P-P014B pin 19? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-




**Table 5. Station 4 Word 1 Data Readout XXX1XX or XXXX4X (Continued)**

Procedure	No	Yes
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014B		
(3) 61P-Y203C		
(4) Door 45L .....	-	-
<b>LEGEND</b> <input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 6. Station 4 Word 1 Data Readout XXXX1X or XXXX2X**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	

Table 6. Station 4 Word 1 Data Readout XXXX1X or XXXX2X (Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin J and 61P-P014A pin 37? .....	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-000).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-P064B <input type="checkbox"/> pin U or <input type="checkbox"/> pin b and 61P-P014A pin 37? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-

**Table 6. Station 4 Word 1 Data Readout XXXX1X or XXXX2X (Continued)**

Procedure	No	Yes
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) 61P-Y203C		
(4) Door 45L .....	-	-
<b>LEGEND</b> <input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 7. Station 4 Word 1 Data Readout XXXXX2 or XXXXX4**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	

Table 7. Station 4 Word 1 Data Readout XXXXX2 or XXXXX4 (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin K and 61P-P014A pin 83? .....	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-000).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-P064B <input type="checkbox"/> pin E or <input type="checkbox"/> pin k and 61P-P014A pin 83? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-


Table 7. Station 4 Word 1 Data Readout XXXXX2 or XXXXX4 (Continued)

Procedure	No	Yes
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) 61P-Y203C		
(3) Door 45L .....	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p><input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 8. Station 4 Word 1 Data Readout XXXXX1 or Word 2 Data Readout 1XXXXX

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	

**Table 8. Station 4 Word 1 Data Readout XXXXX1 or  
Word 2 Data Readout 1XXXXX (Continued)**

Procedure	No	Yes
 <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p align="center"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin P and 61P-P014A pin 17? .....	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-000).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-P064B <input type="checkbox"/> pin S or <input type="checkbox"/> pin p and 61P-P014A pin 17? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-

**Table 8. Station 4 Word 1 Data Readout XXXXX1 or  
Word 2 Data Readout 1XXXXX (Continued)**

Procedure	No	Yes
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:  (1) 52P-P064B  (2) 61P-P014A  (3) 61P-Y203C  (4) Door 45L .....	-	-
<b>LEGEND</b>  <input type="checkbox"/> 1 ➔ On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <input type="checkbox"/> 2 ➔ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		





## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 WEAPON SYSTEM END TO END TEST, PART 7

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 161925 AND UP; ALSO 161353 THRU 161924 AFTER F/A-18 AFC 74

## Reference Material

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
 Line Maintenance Access Doors ..... A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorpo- ration of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Station 4 Word 2 Data Readout X5252X


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div style="display: flex; justify-content: space-between;"><div><p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p><p>(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).</p></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div></div>		

Table 1. Station 4 Word 2 Data Readout X5252X (Continued)

Procedure	No	Yes
(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(4) Does continuity exist between:		
61P-Y203C pin U and 61P-P014A pin 6		
61P-Y203C pin Z and 61P-P014A pin 48		
61P-Y203C pin c and 61P-P014A pin 58		
61P-Y203C pin Y and 61P-P014A pin 59		
61P-Y203C pin R and 61P-P014A pin 69? .....	b	e
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between:		
52P-P064B <input type="checkbox"/> pin s, or <input type="checkbox"/> pin e and 61P-P014A pin 6		
52P-P064B <input type="checkbox"/> pin B, or <input type="checkbox"/> pin G and 61P-P014A pin 48		
52P-P064B <input type="checkbox"/> pin D, or <input type="checkbox"/> pin J and 61P-P014A pin 58		
52P-P064B <input type="checkbox"/> pin A, or <input type="checkbox"/> pin KK and 61P-P014A pin 59		
52P-P069B <input type="checkbox"/> pin C, or <input type="checkbox"/> pin H and 61P-P014A pin 69? .....	c	d
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step g .....	-	-
d. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step g .....	-	-
e. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) In left main landing gear door, disconnect 61P-P014B from J2 on encoder-decoder.		
(4) Does continuity exist between:		
<input type="checkbox"/> 52P-P064B pin P and 61P-P014B pin 5		
52P-P064B pin R and 61P-P014B pin 13? .....	c	f
<input type="checkbox"/> 52P-P064B pin M and 61P-P014B pin 16		
52P-P064B pin N and 61P-P014B pin 17? .....	c	f
f. Malfunction is caused by one of the items listed below:		
(1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).		

**Table 1. Station 4 Word 2 Data Readout X5252X (Continued)**

Procedure	No	Yes
(2) Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step g .....	-	-
g. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) 61P-P014B		
(4) 61P-Y203C		
(5) Door 45L .....	-	-
<b>LEGEND</b> <input type="checkbox"/> 1 ➔ On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <input type="checkbox"/> 2 ➔ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 2. Station 4 Word 2 Data Readout 12525X**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	

Table 2. Station 4 Word 2 Data Readout 12525X (Continued)


Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).</p> <p>(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.</p> <p>(4) Does continuity exist between:</p> <p>61P-Y203C pin P and 61P-P014A pin 17</p> <p>61P-Y203C pin R and 61P-P014A pin 69</p> <p>61P-Y203C pin U and 61P-P014A pin 6</p> <p>61P-Y203C pin Y and 61P-P014A pin 59</p> <p>61P-Y203C pin Z and 61P-P014A pin 48</p> <p>61P-Y203C pin c and 61P-P014A pin 58? .....</p>	b	e
<p>b. Do substeps listed below:</p> <p>(1) Open door 45L (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).</p> <p>(3) Does continuity exist between:</p> <p>52P-P064B <input type="checkbox"/> pin S or <input type="checkbox"/> pin p and 61P-P014A pin 17</p> <p>52P-P064B <input type="checkbox"/> pin C or <input type="checkbox"/> pin H and 61P-P014A pin 69</p> <p>52P-P064B <input type="checkbox"/> pin s or <input type="checkbox"/> pin e and 61P-P014A pin 6</p> <p>52P-P064B <input type="checkbox"/> pin A or <input type="checkbox"/> pin KK and 61P-P014A pin 59</p> <p>52P-P064B <input type="checkbox"/> pin B or <input type="checkbox"/> pin G and 61P-P014A pin 48</p> <p>52P-P064B <input type="checkbox"/> pin D or <input type="checkbox"/> pin J and 61P-P014A pin 58? .....</p>	c	d

Table 2. Station 4 Word 2 Data Readout 12525X (Continued)

Procedure	No	Yes
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step g .....	-	-
d. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step g .....	-	-
e. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2) Aircraft Guided Missile Launcher.		
(3) In left main landing gear door, disconnect 61P-P014B from J2 on encoder-decoder.		
(4) Does continuity exist between:		
1 ➡ 52P-P064B pin P and 61P-P014B pin 5 52P-P064B pin R and 61P-P014B pin 13? .....	c	f
2 ➡ 52P-P064B pin M and 61P-P014B pin 16 52P-P064B pin N and 61P-P014B pin 17 .....	c	f
f. Malfunction is caused by one of the items listed below:		
(1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).		
(2) Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step g .....	-	-
g. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) 61P-P014B		
(4) 61P-Y203C		
(5) Door 45L .....	-	-
<b>LEGEND</b>		
1 ➡ On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
2 ➡ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 3. Station 4 Word 2 Data Readout X2XXXX or X4XXXX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p>		
<p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Aircraft Guided Missile Launcher LAU-116( )  Aircraft Wiring  Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
		
<p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p>		
<b>NOTE</b>		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below.</p> <p style="margin-left: 40px;">(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p style="margin-left: 40px;">(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).</p>		

Table 3. Station 4 Word 2 Data Readout X2XXXX or X4XXXX (Continued)

Procedure	No	Yes
(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin R and 61P-P014A pin 69? .....	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-P064B <input type="checkbox"/> 1 pin C or <input type="checkbox"/> 2 pin H and 61P-P014A pin 69? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) 61P-Y203C		
(4) Door 45L .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		



Table 4. Station 4 Word 2 Data Readout X1XXXX or XX4XXX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>6. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div style="display: flex; justify-content: space-between;"><div><p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p><p>(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).</p></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div></div>		

Table 4. Station 4 Word 2 Data Readout X1XXXX or XX4XXX (Continued)

Procedure	No	Yes
(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin U and 61P-P014A pin 6? . . . . .	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-P064B <input type="checkbox"/> pins s or <input type="checkbox"/> pin e, and 61P-P014A pin 6? . . . . .	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f . . . . .	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f . . . . .	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f . . . . .	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) 61P-Y203C		
(4) Door 45L . . . . .	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 5. Station 4 Word 2 Data Readout XX1XXX or XX2XXX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>  None		
<b>NOTE</b>  Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.  Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:  Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;">  </div> <p style="text-align: center;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).</li> </ol>		

Table 5. Station 4 Word 2 Data Readout XX1XXX or XX2XXX (Continued)

Procedure	No	Yes
(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin Y and 61P-P014A pin 59? . . . . .	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-P064B <input type="checkbox"/> pin A or <input type="checkbox"/> pin KK, and 61P-P014A pin 59? . . . . .	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f . . . . .	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f . . . . .	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f . . . . .	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) 61P-Y203C		
(4) Door 45L . . . . .	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 6. Station 4 Word 2 Data Readout XXX2XX or XXX4XX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div style="display: flex; justify-content: space-between;"><div><p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p><p>(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).</p></div><div style="border-left: 1px solid black; height: 100px; width: 50px;"></div><div style="border-left: 1px solid black; height: 100px; width: 50px;"></div></div>		

Table 6. Station 4 Word 2 Data Readout XXX2XX or XXX4XX (Continued)

Procedure	No	Yes
(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin Z and 61P-P014A pin 48? .....	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-P064B <input type="checkbox"/> pin B or <input type="checkbox"/> pin G and 61P-P014A pin 48? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) 61P-Y203C		
(4) Door 45L .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 7. Station 4 Word 2 Data Readout XXX1XX or XXXX4X


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div style="display: flex; justify-content: space-between;"><div><p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p><p>(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).</p></div><div style="border-left: 1px solid black; height: 100px; width: 50px;"></div><div style="border-left: 1px solid black; height: 100px; width: 50px;"></div></div>		

Table 7. Station 4 Word 2 Data Readout XXX1XX or XXXX4X (Continued)

Procedure	No	Yes
(3) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin c and 61P-P014A pin 58? .....	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-P064B <input type="checkbox"/> pin D or <input type="checkbox"/> pin J and 61P-P014A pin 58? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) 61P-Y203C		
(4) Door 45L .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		



Table 8. Station 4 Word 2 Data Readout XXXX2X or XXXX1X


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div style="display: flex; justify-content: space-between;"><div><p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p><p>(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).</p></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div></div>		

Table 8. Station 4 Word 2 Data Readout XXXX2X or XXXX1X (Continued)

Procedure	No	Yes
(3) Open door 45L (A1-F18AC-LMM-010).		
(4) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).		
(5) In left main landing gear door, disconnect 61P-P014B from J2 on encoder-decoder.		
(6) Does continuity exist between:		
1 ➡ 52P-P064B pin P and 61P-P014B pin 5 52P-P064B pin R and 61P-P014B pin 13? .....	b	c
2 ➡ 52P-P064B pin M and 61P-P014B pin 16 52P-P064B pin N and 61P-P014B pin 17? .....	b	c
b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step d .....	-	-
c. Malfunction is caused by one of the items listed below:		
(1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).		
(2) Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step d .....	-	-
d. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014B		
(3) 61P-Y203C		
(4) Door 45L .....	-	-
<b>LEGEND</b>		
1 ➡ On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
2 ➡ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 9. Station 4 Word 2 Data Readout XXXXX2 or XXXXX4



Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;">NOTE</div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

Table 9. Station 4 Word 2 Data Readout XXXXX2 or XXXXX4 (Continued)

Procedure	No	Yes
(2) Disconnect Test Breech adapter from forward breech of LAU-116.		
(3) In left main landing gear door, disconnect 61P-P014C from J3 on encoder-decoder.		
(4) Does continuity exist between the center pin in the forward breech and 61P-P014C pin 8? .....	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064A from 61J-Y200A (J1 on LAU-116).		
(3) Does continuity exist between 52P-P064A pin D and 61P-P014C pin 8? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064A		
(2) 61P-P014C		
(3) Door 45L .....	-	-

**Table 10. Station 4 Word 2 Data Readout XXXXX1 or Word 3 Data Readout 1XXXXX**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

**Table 10. Station 4 Word 2 Data Readout XXXXX1 or Word 3 Data Readout 1XXXXX (Continued)**

Procedure	No	Yes
(2) Disconnect Test Breech adapter from forward breech of LAU-116.		
(3) In left main landing gear door, disconnect 61P-P014C from J3 on encoder-decoder.		
(4) Does continuity exist between the center pin in the aft breech and 61P-P014C pin 7? . . . . .	b	d
b. Do substeps listed below:		
(1) Open door 45L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-P064A from 61J-Y200A (J1 on LAU-116).		
(3) Does continuity exist between 52P-P064A pin G and 61P-P014C pin 7? . . . . .	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f . . . . .	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f . . . . .	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f . . . . .	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064A		
(2) 61P-P014C		
(3) Door 45L . . . . .	-	-

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 WEAPON SYSTEM END TO END TEST, PART 8

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 161925 AND UP; ALSO 161702 THRU 161924 AFTER F/A-18 AFC 74

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control System .....	A1-F18AC-740-200
Stores Management System Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorpo- ration of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**Table 1. Station 4 Word 3 Data Readout X2X1XX -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>  None		
<b>NOTE</b>  Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.  Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below: <div style="margin-left: 20px; padding-left: 20px;">             Aircraft Guided Missile Launcher LAU-116( )              Aircraft Wiring              Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)              No. 7 Circuit Breaker/Relay Control Panel Assembly           </div>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div> </div> <p style="text-align: center;">To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>CAUTION</b></div> </div> <p style="text-align: center;">To prevent damage to multimeter during stray voltage testing observe the list below:</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li> </ol> <p style="text-align: center;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		



**Table 1. Station 4 Word 3 Data Readout X2X1XX -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
Bent/recessed pins in a connector are a common cause of stray voltage.		
a. Do substeps listed below:		
(1) Do memory inspect for Word 1, WP027 05.		
(2) Is word 1 data readout X1XX1X? .....	b	c
b. Is word 1 data readout X25252?. .....	e	d
c. Inflight switch malfunction. Do table 1, WP027 11 .....	-	-
d. Battery armed malfunction. Do table 5, WP027 11 .....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 45L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-P064A from 6LJ-Y200A (J1 on LAU-116).		
(4) In left main landing gear door, disconnect 61P-P014C from J3 on encoder-decoder.		
(5) Does continuity exist between:		
52P-P064A pin A and 61P-P014C pin 5		
52P-P064A pin B and 61P-P014C pin 4		
52P-P064A pin C and 61P-P014C pin 12? .....	f	g
f. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step t .....	-	-

**Table 1. Station 4 Word 3 Data Readout X2X1XX -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>g. Do substeps listed below:</p> <p>(1) In left main landing gear door, connect 61P-P014C to J3 on encoder-decoder.</p> <p>(2) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(4) Does stray voltage exist between:</p> <p>52P-P064A pin A and aircraft ground</p> <p>52P-P064A pin B and aircraft ground</p> <p>52P-P064A pin C and aircraft ground</p> <p>52P-P064A pin D and aircraft ground</p> <p>52P-P064A pin G and aircraft ground? . . . . .</p>	h	l
<p>h. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In door 45L, disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(5) Does stray voltage exist between:</p> <p>52P-P064B pin e and aircraft ground</p> <p>52P-P064B pin c and aircraft ground? . . . . .</p>	i	n
i. Does stray voltage exist between 52P-P064B pin g and aircraft ground? . . . . .	j	f
<p>j. Does stray voltage exist between:</p> <p>52P-P064B pin U and aircraft ground</p> <p>52P-P064B pin r and aircraft ground? . . . . .</p>	k	s
<p>k. Malfunction is caused by one of the items listed below:</p> <p>(1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>		

**Table 1. Station 4 Word 3 Data Readout X2X1XX -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(2) Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step t .....	-	-
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In left main landing gear door, disconnect 61P-P014C from J3 on encoder-decoder.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
52P-P064A pin A and aircraft ground		
52P-P064A pin B and aircraft ground		
52P-P064A pin C and aircraft ground		
52P-P064A pin D and aircraft ground		
52P-P064A pin G and aircraft ground? .....	m	f
m. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step t .....	-	-
n. Is stray voltage 115vac? .....	o	r
o. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 52P-P064B pin c and aircraft ground? .....	f	p
p. Do substeps listed below:		
(1) Open door 10L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-C057C from 52J-C057C.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 52P-C057C pin g and aircraft ground? .....	q	f

**Table 1. Station 4 Word 3 Data Readout X2X1XX -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
q. Isolate malfunction between No. 7 Circuit Breaker/Relay Panel Assembly and 61K-C124 Station 4 Power Control Relay (A1-F18AC-420-300, WP027 00) and do step t .....	-	-
r. Do table 2, WP027 19 .....	-	-
s. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
52P-P064B pin U and aircraft ground		
52P-P064B pin r and aircraft ground? .....	m	f
t. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-C057C		
(2) 52P-P064A		
(3) 52P-P064B		
(4) 61P-P014A		
(5) 61P-P014C		
(6) Door 10L		
(7) Door 45L .....	-	-

**Table 1A. Station 4 Word 3 Data Readout X2X1XX -  
F/A-18A 162394 THRU 13175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 4 Power Control Schematic and Weapon -Station 4,6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP029 02 and WP044 02) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Guided Missile Launcher LAU-116( )</p> <p>Aircraft Wiring</p> <p>Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p> <p>No. 11 Relay Control Panel Assembly</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div> </div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage test. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>CAUTION</b></div> </div> <p>To prevent damage to multimeter during stray voltage testing observe the list below:</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li> </ol>		

**Table 1A. Station 4 Word 3 Data Readout X2X1XX -  
F/A-18A 162394 THRU 13175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
Bent/recessed pins in a connector are a common cause of stray voltage.		
a. Do substeps listed below:		
(1) Do memory inspect for Word 1, WP027 05		
(2) Is word 1 data readout X1XX1X? .....	b	c
b. Is word 1 data readout X25252? .....	e	d
c. Inflight switch malfunction. Do table 1, WP027 11 .....	-	-
d. Battery armed malfunction. Do table 5A, WP027 11 .....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 52P-064A from 61J-Y200A on LAU-116.		
(2) Turn on electrical power (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set 1, 2, and 3 switches to B ON.		
(4) Does stray voltage exist between:		
52P-P064A pin A and aircraft ground		
52P-P064A pin B and aircraft ground		
52P-P064A pin C and aircraft ground		
52P-P064A pin D and aircraft ground		
52P-P064A pin G and aircraft ground? .....	f	j
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		

**Table 1A. Station 4 Word 3 Data Readout X2X1XX -  
F/A-18A 162394 THRU 13175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(2) In door 45L, disconnect 52P-P064B from 61J-Y200-B (J2 on LAU-116).</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set 1, 2, and 3 switches to B ON.</p> <p>(5) Does stray voltage exist between:</p> <p>52P-P064B pin FF and aircraft ground 52P-P064B pin LL and aircraft ground? . . . . .</p> <p>g. Does stray voltage exist between 52P-P064B pin C and aircraft ground? . . . . .</p> <p>h. Does stray voltage exist between:</p> <p>52P-P064B pin b and aircraft ground 52P-P064B pin d and aircraft ground? . . . . .</p> <p>i. Malfunction is caused by one of the items listed below:</p> <p>(1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p> <p>(2) Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).</p> <p>Do step s . . . . .</p> <p>j. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In left main landing gear door, disconnect 61P-P014C from J3 on encoder-decoder.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set 1, 2, and 3 switches to B ON.</p> <p>(5) Does stray voltage exist between:</p> <p>52P-P064A pin A and aircraft ground 52P-P064A pin B and aircraft ground 52P-P064A pin C and aircraft ground 52P-P064A pin D and aircraft ground 52P-P064A pin G and aircraft ground? . . . . .</p> <p>k. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step s . . . . .</p>	<p>g</p> <p>h</p> <p>i</p> <p>-</p> <p>l</p> <p>-</p>	<p>m</p> <p>k</p> <p>r</p> <p>-</p> <p>k</p> <p>-</p>

**Table 1A. Station 4 Word 3 Data Readout X2X1XX -  
F/A-18A 162394 THRU 13175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
l. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step s .....	-	-
m. Is stray voltage 115vac? .....	n	q
n. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 52P-P064B pin LL and aircraft ground? .....	k	o
o. Do substeps listed below:		
(1) Open door 79L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-U045A from No. 11 Relay Panel Assembly.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set 1, 2, and 3 switches to B ON.		
(5) Does stray voltage exist between 52P-U045A pin T and aircraft ground? .....	p	k
p. Isolate malfunction between No. 11 Relay Panel Assembly and 61K-U124 Station 4 Power Control Relay (A1-F18AC-420-300, WP043 00) and do step s .....	-	-
q. Do table 2A, WP027 19 .....	-	-
r. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set 1, 2, and 3 switches to B ON.		
(5) Does stray voltage exist between:		
52P-P-64B pin b and aircraft ground		
52P-P064B pin d and aircraft ground? .....	l	k



**Table 1A. Station 4 Word 3 Data Readout X2X1XX -  
F/A-18A 162394 THRU 13175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
s. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064A		
(2) 52P-P064B		
(3) 52P-U045A		
(4) 61P-P014A		
(5) 61P-P014C		
(6) Doors 14L and 143L .....	-	-

**Table 2. Station 4 Word 3 Data Readout X4XXXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-116( )	
Aircraft Wiring	
Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	

Table 2. Station 4 Word 3 Data Readout X4XXXX (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
<p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect P4 (AIM-7 Motor Fire Cable) from J4 (Motor Fire connector on LAU-116).</p> <p>(3) In left main landing gear door, disconnect 61P-P014C from J3 on encoder-decoder.</p> <p>(4) Does continuity exist between:</p> <p style="padding-left: 40px;">J4 pin A and 61P-P014C pin 5</p> <p style="padding-left: 40px;">J4 pin B and 61P-P014C pin 4</p> <p style="padding-left: 40px;">J4 shield and 61P-P014C pin 12? .....</p>	b	d
<p>b. Do substeps listed below:</p> <p>(1) Open door 45L (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-P064A from 61J-Y200A (J1 on LAU-116).</p> <p>(3) Does continuity exist between:</p> <p style="padding-left: 40px;">52P-P064A pin A and 61P-P014C pin 5</p> <p style="padding-left: 40px;">52P-P064A pin B and 61P-P014C pin 4</p> <p style="padding-left: 40px;">52P-P064A pin C and 61P-P014C pin 12? .....</p>	c	g
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h .....	-	-

Table 2. Station 4 Word 3 Data Readout X4XXXX (Continued)

Procedure	No	Yes
<p>d. Do substeps listed below:</p> <p>(1) Disconnect AIM-7 Test Adapter from 61P-Y203C on LAU-116.</p> <p>(2) In left main landing gear door, disconnect 61P-P014A from J3 on encoder-decoder.</p> <p>(3) Does continuity exist between:</p> <p>61P-Y203C pin e and 61P-P014A pin 10  61P-Y203C pin S and 61P-P014A pin 85? .....</p>	e	h
<p>e. Do substeps listed below:</p> <p>(1) Open door 45L (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).</p> <p>(3) Does continuity exist between:</p> <p>52P-P064B <input type="checkbox"/> pin k or <input type="checkbox"/> pin s and 61P-P014A pin 10  52P-P064B <input type="checkbox"/> pin T or <input type="checkbox"/> pin q and 61P-P014A pin 85? .....</p>	c	f
<p>f. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step h .....</p>	-	-
<p>g. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step h .....</p>	-	-
<p>h. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:</p> <p>(1) 52P-P064A</p> <p>(2) 52P-P064B</p> <p>(3) 61P-P014A</p> <p>(4) 61P-P014C</p> <p>(5) 61P-Y203C</p> <p>(6) P4 (AIM-7 Motor Fire Cable)</p> <p>(7) Door 45L .....</p>	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p><input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 3. Station 4 Word 3 Data Readout X2XXXX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not tests for continuity with multimeter on the RX 1 scale. Pin to pin test that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;">NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

Table 3. Station 4 Word 3 Data Readout X2XXXX (Continued)

Procedure	No	Yes
<p>(2) Disconnect P4 (AIM-7 Motor Fire Cable) from J4 (Motor Fire connector on LAU-116).</p> <p>(3) In left main landing gear door, disconnect 61P-P014C from J3 on encoder-decoder.</p> <p>(4) Does continuity exist between:</p> <p style="padding-left: 40px;">J4 pin A and 61P-P014C pin 5</p> <p style="padding-left: 40px;">J4 pin B and 61P-P014C pin 4? .....</p>	b	d
<p>b. Do substeps listed below:</p> <p>(1) Open door 45L (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-P064A from 61J-Y200A (J1 or LAU-116).</p> <p>(3) Does continuity exist between:</p> <p style="padding-left: 40px;">52P-P064A pin A and 61P-P014C pin 5</p> <p style="padding-left: 40px;">52P-P064A pin B and 61P-P014C pin 4? .....</p>	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
<p>f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:</p> <p>(1) 52P-P064A</p> <p>(2) 61P-P014C</p> <p>(3) P4 (AIM-7 Motor Fire Cable)</p> <p>(4) Door 45L .....</p>	-	-

Table 4. Station 4 Word 3 Data Readout X1XXXX or XXX2XX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 4 Power Control Schematic (A1-F18AC-740-500, WP029 00) and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
		
<p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Open door 45L (A1-F18AC-LMM-010).</li> <li>(3) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).</li> </ol>		

Table 4. Station 4 Word 3 Data Readout X1XXXX or XXX2XX (Continued)

Procedure	No	Yes
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does 28vdc exist between 52P-P064B <input type="checkbox"/> pin CC or <input type="checkbox"/> pin D and aircraft ground? .....	b	c
b. Isolate defective aircraft wiring between 52P-P064B <input type="checkbox"/> pin CC or <input type="checkbox"/> pin D and 61P-P014A pin 91 (A1-F18A( )-WDM-000) and do step g .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 52P-P064B <input type="checkbox"/> pin g or <input type="checkbox"/> pin C and aircraft ground? .....	e	d
d. Do substeps listed below:		
(1) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(2) Does continuity exist between:		
52P-P064B pin BB and 61P-P014A pin 8		
52P-P064B <input type="checkbox"/> pin w, or <input type="checkbox"/> pin H and 61P-P014A pin 88		
52P-P064B <input type="checkbox"/> pin z, or <input type="checkbox"/> pin E and 61P-P014A pin 87? .....	e	f
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step g .....	-	-
f. Malfunction is caused by one of the items listed below:		
(1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).		
(2) Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step g .....	-	-
g. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) Door 46L .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 5. Station 4 Word 3 Data Readout XX4XXX


Support Equipment Required				
Part Number or Type Designation	Nomenclature			
77/BN	Multimeter			
Materials Required				
None				
NOTE				
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.				
Component locations are shown in WP007 00.				
Malfunction is caused by one of the items listed below:				
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)				
Procedure	No	Yes		
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;"> <b>NOTE</b> </div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Open door 45L (A1-F18AC-LMM-010).</li> <li>(3) Disconnect 52P-P064B from 61J-Y200B (J2 on LAU-116).</li> <li>(4) Turn on electrical power (A1-F18AC-LMM-000).</li> </ol>				



Table 5. Station 4 Word 3 Data Readout XX4XXX (Continued)

Procedure	No	Yes
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does 28vdc exist between 52P-P064B <input type="checkbox"/> pin CC or <input type="checkbox"/> pin D and aircraft ground? .....	b	c
b. Isolate defective aircraft wiring between 52P-P064B <input type="checkbox"/> pin CC or <input type="checkbox"/> pin D and 61P-P014A pin 91 (A1-F18A( )-WDM-000) and do step g .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 52P-P064B <input type="checkbox"/> pin g or <input type="checkbox"/> pin C and aircraft ground? .....	e	d
d. Do substeps listed below:		
(1) In left main landing gear door, disconnect 61P-P014A from J1 on encoder-decoder.		
(2) Does continuity exist between:		
52P-P064B <input type="checkbox"/> pin AA or <input type="checkbox"/> pin F and 61P-P014A pin 16		
52P-P064B <input type="checkbox"/> pin w or <input type="checkbox"/> pin HH and 61P-P014A pin 88		
52P-P064B <input type="checkbox"/> pin z or <input type="checkbox"/> pin E and 61P-P014A pin 87? .....	e	f
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step g .....	-	-
f. Malfunction is caused by one of the items listed below:		
(1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).		
(2) Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step g .....	-	-
g. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-P064B		
(2) 61P-P014A		
(3) Door 45L .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 WEAPON SYSTEM END TO END TEST, PART 9

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 161925 AND UP; ALSO 161702 THRU 161924 AFTER F/A-18 AFC 74

## Reference Material

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
 Line Maintenance Access Doors ..... A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorpo- ration of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Station 6 Word 1 Data Readout X1XX1X


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not tests for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;">NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div style="display: flex; justify-content: space-between;"><div><p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p><p>(2) Disconnect tester from 61P-Y203C (LAU-116 umbilical connector).</p></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div></div>		

Table 1. Station 6 Word 1 Data Readout X1XX1X (Continued)

Procedure	No	Yes
(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin D and 61P-R016A pin 4? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-R066B <input type="checkbox"/> pin b or <input type="checkbox"/> pin r and 61P-R016A pin 4? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	c	e
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) 61P-Y203C		
(4) Door 45R .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 2. Station 6 Word 1 Data Readout XXX42X or XXX2XX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div style="display: flex; justify-content: space-between;"><div><p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p><p>(2) Disconnect tester from 61P-Y203C (LAU-116 umbilical connector).</p></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div></div>		

Table 2. Station 6 Word 1 Data Readout XXX42X or XXX2XX (Continued)

Procedure	No	Yes
(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin e and 61P-R016A pin 10? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from L-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 61P-R016A pin 10 and 52P-R066B <input type="checkbox"/> pin k or <input type="checkbox"/> pin s? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) 61P-Y203C		
(4) Door 45R .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 3. Station 6 Word 1 Data Readout XXX525


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		



Table 3. Station 6 Word 1 Data Readout XXX525 (Continued)

Procedure	No	Yes
<p>(2) Disconnect tester from 61P-Y203C (LAU-116 umbilical connector).</p> <p>(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.</p> <p>(4) Does continuity exist between:</p> <p>61P-Y203C pin S and 61P-R016A pin 85</p> <p>61P-Y203C pin e and 61P-R016A pin 10</p> <p>61P-Y203C pin J and 61P-R016A pin 37</p> <p>61P-Y203C pin K and 61P-R016A pin 83</p> <p>61P-Y203C pin P and 61P-R016A pin 17? .....</p>	b	d
<p>b. Do substeps listed below:</p> <p>(1) Open door 45R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-R066B from L-Y200B (J2 on LAU-116).</p> <p>(3) Does continuity exist between:</p> <p>61P-R016A pin 85 and 52P-R066B <input type="checkbox"/> pin T or <input type="checkbox"/> pin q</p> <p>61P-R016A pin 10 and 52P-R066B <input type="checkbox"/> pin k or <input type="checkbox"/> pin s</p> <p>61P-R016A pin 37 and 52P-R066B <input type="checkbox"/> pin U or <input type="checkbox"/> pin b</p> <p>61P-R016A pin 83 and 52P-R066B <input type="checkbox"/> pin E or <input type="checkbox"/> pin K</p> <p>61P-R016A pin 17 and 52P-R066B <input type="checkbox"/> pin S or <input type="checkbox"/> pin p .....</p>	c	f
<p>c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h .....</p>	-	-
<p>d. Do substeps listed below:</p> <p>(1) In right main landing gear door, disconnect 61P-R016B from J2 on encoder-decoder.</p> <p>(2) Does continuity exist between 61P-Y203C pin E and 61P-R016B <input type="checkbox"/> pin 11 or <input type="checkbox"/> pin 19? .....</p>	e	h
<p>e. Do substeps listed below:</p> <p>(1) Open door 45R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-R066B from 6LJ-Y200B (J2 on LAU-116).</p> <p>(3) Does continuity exist between 61P-R016B <input type="checkbox"/> pin 11 or <input type="checkbox"/> pin 19 and 52P-R066B <input type="checkbox"/> pin F or <input type="checkbox"/> pin L? .....</p>	c	f
<p>f. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step h .....</p>	-	-

Table 3. Station 6 Word 1 Data Readout XXX525 (Continued)

Procedure	No	Yes
g. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step h .....	-	-
h. If disconnected, removed or opened during this procedure make sure the items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) 61P-R016B		
(4) 61P-Y203C		
(5) Door 45R .....	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p><input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 4. Station 6 Word 1 Data Readout X12XXX

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-116( )	
Aircraft Wiring	
Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	

Table 4. Station 6 Word 1 Data Readout X12XXX (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect tester from 61P-Y203C.		
(3) Install a jumper wire from 61P-Y203C pin a to aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow a 2 minute warmup. Adjust BRT and CONT for best display.		
(7) On RDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
(c) Does RDDI display 1 7F and missile symbol on stores display? .....	b	c
b. Do table 3 (WP010 26) .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		

Table 4. Station 6 Word 1 Data Readout X12XXX (Continued)

Procedure	No	Yes
<p>(2) In right main landing gear door, disconnect 61P-R016A from J1 encoder-decoder.</p> <p>(3) Does continuity exist between:</p> <p>61P-Y203C pin D and 61P-R016A pin 4  61P-Y203C pin d and 61P-R016A pin 9? .....</p> <p>d. Do substeps listed below:</p> <p>(1) Open door 45R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).</p> <p>(3) Does continuity exist between:</p> <p>61P-R016A pin 4 and 52P-R066B <input type="checkbox"/> pin b or <input type="checkbox"/> pin r  61P-R016A pin 9 and 52P-R066B <input type="checkbox"/> pin m or <input type="checkbox"/> pin t? .....</p> <p>e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h .....</p> <p>f. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)  (A1-F18AC-740-300, WP008 00) and do step h .....</p> <p>g. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00)  and do step h .....</p> <p>h. If disconnected, removed or opened during this procedure make sure items listed below are  connected, installed or closed:</p> <p>(1) 52P-R066B</p> <p>(2) 61P-R016A</p> <p>(3) 61P-Y203C</p> <p>(4) Door 45R</p> <p>(5) Remove jumper wire (61P-Y203C) .....</p>	<p>d</p> <p>e</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p>	<p>f</p> <p>g</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p>
<p style="text-align: center;"><b>LEGEND</b></p> <p><input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

**Table 5. Station 6 Word 1 Data Readout X25252 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 01) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Guided Missile Launcher LAU-116( )  Aircraft Wiring  No. 2 Relay Panel Assembly  Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div> </div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>CAUTION</b></div> </div> <p>To prevent damage to multimeter during stray voltage testing observe the list below:</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li> </ol> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

**Table 5. Station 6 Word 1 Data Readout X25252 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
Bent/recessed pins in a connector are a common cause of stray voltage.		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(4) Does continuity exist between:		
61P-Y203C pin D and 61P-R016A pin 4		
61P-Y203C pin d and 61P-R016A pin 9		
61P-Y203C pin J and 61P-R016A pin 37		
61P-Y203C pin K and 61P-R016A pin 83? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between:		
52P-R066B pin b and 61P-R016A pin 4		
52P-R066B pin m and 61P-R016A pin 9		
52P-R066B pin U and 61P-R016A pin 37		
52P-R066B pin E and 61P-R016A pin 83? .....	c	f
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step t .....	-	-
d. Do substeps listed below:		
(1) In right main landing gear door, disconnect 61P-R016B from J2 on encoder-decoder.		
(2) Does continuity exist between 61P-Y203C pin E and 61P-R016B pin 11? .....	e	g

**Table 5. Station 6 Word 1 Data Readout X25252 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
e. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-R066B pin F and 61P-R016B pin 11? .....	c	f
f. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step t .....	-	-
g. Do substeps listed below:		
(1) In right main landing gear door, connect:		
61P-R016A to J1 on encoder-decoder.		
61P-R016B to J2 on encoder-decoder.		
(2) Open door 45R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
52P-R066B pin e and aircraft ground		
52P-R066B pin c and aircraft ground? .....	h	k
h. Does stray voltage exist between:		
52P-R066B pin U and aircraft ground		
52P-R066B pin r and aircraft ground? .....	i	q
i. Does stray voltage exist between 52P-R066B pin g and aircraft ground? .....	j	c
j. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 45R, disconnect 52P-R066A from 61J-Y200A (J1 on LAU-116).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		

**Table 5. Station 6 Word 1 Data Readout X25252 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(5) Does stray voltage exist between:  52P-R066A pin A and aircraft ground 52P-R066A pin B and aircraft ground 52P-R066A pin C and aircraft ground 52P-R066A pin D and aircraft ground 52P-R066A pin G and aircraft ground? .....	p	s
k. Is stray voltage 115vac? .....	l	o
l. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Does continuity exist between 52P-R066B pin c and aircraft ground? .....	c	m
m. Do substeps listed below:  (1) Open door 14R (A1-F18AC-LMM-010).  (2) Disconnect 52P-F058D from 52J-F058D.  (3) Turn on electrical power (A1-F18AC-LMM-000).  (4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.  (5) Does stray voltage exist between 52P-F058D pin b and aircraft ground? .....	n	c
n. Isolate malfunction between No. 2 Relay Panel Assembly and 61K-F126 Station 6 Power Control Relay (A1-F18AC-420-300, WP032 00) and do step t .....	-	-
o. Do table 1, WP027 20 .....	-	-
p. Malfunction is caused by one of the items listed below:  (1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).  (2) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).  Do step t .....	-	-
q. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.  (3) Turn on electrical power (A1-F18AC-LMM-000).		



**Table 5. Station 6 Word 1 Data Readout X25252 -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(5) Does stray voltage exist between:</p> <p>52P-R066B pin U and aircraft ground 52P-R066B pin r and aircraft ground? .....</p> <p>r. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step t .....</p> <p>s. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In right main landing gear door, disconnect 61P-R016C from J3 on encoder-decoder.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(5) Does stray voltage exist between:</p> <p>52P-R066A pin A and aircraft ground 52P-R066A pin B and aircraft ground 52P-R066A pin C and aircraft ground 52P-R066A pin D and aircraft ground 52P-R066A pin G and aircraft ground? .....</p> <p>t. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:</p> <p>(1) 52P-F058D</p> <p>(2) 52P-R066A</p> <p>(3) 52P-R066B</p> <p>(4) 61P-R016A</p> <p>(5) 61P-R016B</p> <p>(6) 61P-R016C</p> <p>(7) Door 14R</p> <p>(8) Door 45R .....</p>	<p>r</p> <p>-</p> <p>n</p> <p>-</p>	<p>c</p> <p>-</p> <p>c</p> <p>-</p>

**Table 5A. Station 6 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77B/N	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 6 Power Control Schematic and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP031 02 and WP044 02) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <ul style="list-style-type: none"> <li>Aircraft Guided Missile Launcher LAU-116( )</li> <li>Aircraft Wiring</li> <li>No. 10 Relay Panel Assembly</li> <li>Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</li> </ul>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div> </div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>CAUTION</b></div> </div> <p>To prevent damage to multimeter during stray voltage testing observe the list below:</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li> </ol> <div style="text-align: center; margin-bottom: 10px;"><b>NOTE</b></div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		

**Table 5A. Station 6 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
Bent/recessed pins in a connector are a common cause of stray voltage.		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(4) Does continuity exist between:		
61P-Y203C pin D and 61P-R016A pin 4		
61P-Y203C pin d and 61P-R016A pin 9		
61P-Y203C pin J and 61P-R016A pin 37		
61P-Y203C pin K and 61P-R016A pin 83? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between:		
52P-R066B pin r and 61P-R016A pin 4		
52P-R066B pin t and 61P-R016A pin 9		
52P-R060B pin b and 61P-R016A pin 37		
52P-R066B pin K and 61P-R016A pin 83? .....	c	f
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step t .....	-	-
d. Do substeps listed below:		
(1) In right main landing gear door, disconnect 61P-R016B from J2 on encoder-decoder.		
(2) Does continuity exist between 61P-Y203C pin E and 61P-R016B pin 19? .....	e	g
e. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-R066B pin L and 61P-R016B pin 19? .....	c	f
f. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step t .....	-	-

**Table 5A. Station 6 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
g. Do substeps listed below:		
(1) In right main landing gear door, connect:		
61P-R016A to J1 on encoder-decoder.		
61P-R016B to J2 on encoder-decoder.		
(2) Open door 45R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
52P-R066B pin FF and aircraft ground		
52P-R066B pin LL and aircraft ground? .....	h	k
h. Does stray voltage exist between:		
52P-R066B pin b and aircraft ground		
52P-R066B pin d and aircraft ground? .....	i	q
i. Does stray voltage exist between 52P-R066B pin C and aircraft ground? .....	j	c
j. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 45R, disconnect 52P-R066A from 61J-Y200A (J1 on LAU-116).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
52P-R066A pin A and aircraft ground		
52P-R066A pin B and aircraft ground		
52P-R066A pin C and aircraft ground		
52P-R066A pin D and aircraft ground		
52P-R066A pin G and aircraft ground? .....	p	s
k. Is stray voltage 115vac? .....	l	o

**Table 5A. Station 6 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 52P-R066B pin LL and aircraft ground? . . . . .	c	m
m. Do substeps listed below:		
(1) Open door 79R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-V044A from No. 10 Relay Panel Assembly.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 52P-V044A pin T and aircraft ground? . . . . .	n	c
n. Isolate malfunction between No. 10 Relay Panel Assembly and Station 6 Power Control Relay (61K-V126) (A1-F18AC-420-300, WP042 00) and do step t . . . . .	-	-
o. Do table 1A, WP027 20 . . . . .	-	-
p. Malfunction is caused by one of the items listed below:		
(1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).		
(2) Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step t . . . . .	-	-
q. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
52P-R066B pin b and aircraft ground		
52P-R066B pin d and aircraft ground? . . . . .	r	c

**Table 5A. Station 6 Word 1 Data Readout X25252 -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>r. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step t .....</p> <p>s. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In right main landing gear door, disconnect 61P-R016C from J3 on encoder-decoder.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(5) Does stray voltage exist between:</p> <p>52P-R066A pin A and aircraft ground</p> <p>52P-R066A pin B and aircraft ground</p> <p>52P-R066A pin C and aircraft ground</p> <p>52P-R066A pin D and aircraft ground</p> <p>52P-R066A pin G and aircraft ground? .....</p> <p>t. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:</p> <p>(1) 52P-R066A</p> <p>(2) 52P-R066B</p> <p>(3) 52P-V044A</p> <p>(4) 61P-R016A</p> <p>(5) 61P-R016B</p> <p>(6) 61P-R016C</p> <p>(7) 61P-Y203C</p> <p>(8) Door 45R and 79R .....</p>	<p>-</p> <p>r</p> <p>-</p>	<p>-</p> <p>c</p> <p>-</p>

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 WEAPON SYSTEM END TO END TEST, PART 10

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 161925 AND UP; ALSO 161702 THRU 161924 AFTER F/A-18 AFC 74

## Reference Material

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
 Line Maintenance Access Doors ..... A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorpo- ration of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**Table 1. Station 6 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring No. 2 Relay Panel Assembly Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="border: 1px solid black; padding: 5px; text-align: center;"><b>WARNING</b></div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>CAUTION</b></div> <p>To prevent damage to multimeter during stray voltage testing observe the list below:</p> <ol style="list-style-type: none"><li>Start testing with multimeter on highest range scale.</li><li>Reduce scale one range at a time to the lowest scale required for a reading.</li><li>Test for AC and DC voltages.</li><li>Record any stray voltage readings as an aid when doing further troubleshooting.</li></ol> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		



**Table 1. Station 6 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/recessed pins in a connector are a common cause of stray voltage.</p>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 45R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-R066B from 61J-Y200B (J1 on LAU-116).		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
52P-R066B pin e and aircraft ground		
52P-R066B pin c and aircraft ground? .....	b	f
b. Does stray voltage exist between:		
52P-R066B pin U and aircraft ground		
52P-R066B pin r and aircraft ground? .....	c	k
c. Does stray voltage exist between 52P-R066B pin g and aircraft ground? .....	d	m
d. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 45R, disconnect 52P-R066A from 61J-Y200A (J1 on LAU-116).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		

**Table 1. Station 6 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
52P-R066A pin A and aircraft ground		
52P-R066A pin B and aircraft ground		
52P-R066A pin C and aircraft ground		
52P-R066A pin D and aircraft ground		
52P-R006A pin G and aircraft ground? .....	e	h
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step o .....	-	-
f. Is stray voltage 115vac? .....	g	j
g. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 52P-R066B pin c and aircraft ground? .....	m	h
h. Do substeps listed below:		
(1) Open door 14R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-F058D from 52J-F058D.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 52P-F058D pin b and aircraft ground? .....	i	m
i. Isolate malfunction between No. 2 Relay Panel Assembly and 61K-F126 Station 6 Power Control Relay (A1-F18AC-420-300, WP032 00) and do step o .....	-	-
j. Do table 1 (WP027 20) .....	-	-
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		

**Table 1. Station 6 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(5) Does stray voltage exist between:</p> <p>52P-R066B pin U and aircraft ground 52P-R066B pin r and aircraft ground? .....</p>	l	m
<p>l. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step o .....</p>	-	-
<p>m. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step o .....</p>	-	-
<p>n. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In right main landing gear door, disconnect 61P-R016C from J3 on encoder-decoder.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(5) Does stray voltage exist between:</p> <p>52P-R066A pin A and aircraft ground 52P-R066A pin B and aircraft ground 52P-R066A pin C and aircraft ground 52P-R066A pin D and aircraft ground 52P-R066A pin G and aircraft ground? .....</p>	l	m
<p>o. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:</p> <p>(1) 52P-F058D</p> <p>(2) 52P-R066A</p> <p>(3) 52P-R066B</p> <p>(4) 61P-R016A</p> <p>(5) 61P-R016C</p> <p>(6) Door 14R</p> <p>(7) Door 45R .....</p>	-	-

**Table 1A. Station 6 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>  None		
<b>NOTE</b>  Weapon Station 6 Power Control Schematic and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP031 02 and WP044 02) may be used as an aid when doing this procedure.  Component locations are shown in WP007 00.  Malfunction is caused by one of the items listed below:  Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring No. 10 Relay Panel Assembly Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div> </div> <p style="text-align: center;">To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 5px; display: inline-block; border-style: dashed;"><b>CAUTION</b></div> </div> <p style="text-align: center;">To prevent damage to multimeter during stray voltage testing observe the list below:</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li> </ol>		

**Table 1A. Station 6 Word 1 Data Readout X2XXXXX or Word 3 Data Readout XXXX1X - F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/recessed pins in a connector are a common cause of stray voltage.</p>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 45R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-R066B from 61J-Y200B (J1 on LAU-116).		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
52P-R066B pin FF and aircraft ground		
52P-R066B pin LL and aircraft ground? .....	b	f
b. Does stray voltage exist between:		
52P-R066B pin b and aircraft ground		
52P-R066B pin d and aircraft ground? .....	c	k
c. Does stray voltage exist between 52P-R066B pin C and aircraft ground? .....	d	m
d. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 45R, disconnect 52P-R066A from 61J-Y200A (J1 on LAU-116).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		

**Table 1A. Station 6 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(5) Does stray voltage exist between:  52P-R066A pin A and aircraft ground 52P-R066A pin B and aircraft ground 52P-R066A pin C and aircraft ground 52P-R066A pin D and aircraft ground 52P-R006A pin G and aircraft ground? .....	e	n
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step o .....	-	-
f. Is stray voltage 115vac? .....	g	j
g. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Does continuity exist between 52P-R066B pin LL and aircraft ground? .....	m	h
h. Do substeps listed below:  (1) Open door 79R (A1-F18AC-LMM-010).  (2) Disconnect 52P-V044A from No. 10 Relay Panel Assembly.  (3) Turn on electrical power (A1-F18AC-LMM-000).  (4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.  (5) Does stray voltage exist between 52P-V044A pin T and aircraft ground? .....	i	m
i. Isolate malfunction between No. 10 Relay Panel Assembly and Station 6 Power Control Relay (61K-V126) (A1-F18AC-420-300, WP042 00) and do step o .....	-	-
j. Do table 1A (WP027 20) .....	-	-
k. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.  (3) Turn on electrical power (A1-F18AC-LMM-000).  (4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		

**Table 1A. Station 6 Word 1 Data Readout X2XXXX or Word 3 Data Readout XXXX1X - F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(5) Does stray voltage exist between:</p> <p>52P-R066B pin b and aircraft ground 52P-R066B pin d and aircraft ground? .....</p>	l	m
<p>l. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step o .....</p>	-	-
<p>m. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step o .....</p>	-	-
<p>n. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In right main landing gear door, disconnect 61P-R016C from J3 on encoder-decoder.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(5) Does stray voltage exist between:</p> <p>52P-R066A pin A and aircraft ground 52P-R066A pin B and aircraft ground 52P-R066A pin C and aircraft ground 52P-R066A pin D and aircraft ground 52P-R066A pin G and aircraft ground? .....</p>	l	m
<p>o. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:</p> <p>(1) 52P-R066A</p> <p>(2) 52P-R066B</p> <p>(3) 52P-V044A</p> <p>(4) 61P-R016A</p> <p>(5) 61P-R016C</p> <p>(6) 61P-Y203C</p> <p>(7) Doors 45R and 79R .....</p>	-	-

Table 2. Station 6 Word 1 Data Readout X1XXXX or XX4XXX




Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
 <p style="margin-top: 20px;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center; margin-top: 10px;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p style="margin-top: 20px;">a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).</li> </ol>		



Table 2. Station 6 Word 1 Data Readout X1XXXX or XX4XXX (Continued)

Procedure	No	Yes
(3) Install a jumper wire between 61P-Y203C pin a and aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 and switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.		
(7) On RDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
(c) Does RDDI display 1 7F and missile symbol on stores display? .....	b	c
b. Do table 3 (WP010 26) .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(3) Does continuity exist between 61P-Y203C pin D and 61P-R016A pin 4? .....	d	f
d. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 LAU-116).		
(3) Does continuity exist between 52P-R066B <input type="checkbox"/> pin b or <input type="checkbox"/> pin r and 61P-R016A pin 4? .....	e	g
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h .....	-	-
f. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step h .....	-	-
g. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step h .....	-	-

**Table 2. Station 6 Word 1 Data Readout X1XXXX or XX4XXX (Continued)**

Procedure	No	Yes
h. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) 61P-Y203C		
(4) Door 45R		
(5) Remove jumper wire (61P-Y203C) .....	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

**Table 3. Station 6 Word 1 Data Readout XX1XXX or XX2XXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-116( )	
Aircraft Wiring	
Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	

Table 3. Station 6 Word 1 Data Readout XX1XXX or XX2XXX (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin d and 61P-R016A pin 9? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-R066B <span style="border: 1px solid black; padding: 0 2px;">1</span> pin m or <span style="border: 1px solid black; padding: 0 2px;">2</span> pin t and 61P-R016A pin 9? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-

Table 3. Station 6 Word 1 Data Readout XX1XXX or XX2XXX (Continued)

Procedure	No	Yes
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) 61P-Y203C		
(4) Door 45R .....	-	-
<b>LEGEND</b> <input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 4. Station 6 Word 1 Data Readout XXX4XX

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 6 Power Control Schematic (A1-F18AC-740-500, WP031 00) and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	

Table 4. Station 6 Word 1 Data Readout XXX4XX (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) Install a jumper wire between 61P-Y203C pin a and aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On snsr pod control box panel assembly, set RADAR switch to STBY.		
(7) Does 115vac exist between:		
61P-Y203C pin W (φ B) and 61P-Y203C pin A (115vac return)		
61P-Y203C pin X (φ C) and 61P-Y203C pin A (115vac return)? .....	b	c
b. Do table 1, WP027 20 .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		

Table 4. Station 6 Word 1 Data Readout XXX4XX (Continued)

Procedure	No	Yes
<p>(3) Does continuity exist between:</p> <p>61P-Y203C pin S and 61P-R016A pin 85  61P-Y203C pin e and 61P-R016A pin 10? .....</p> <p>d. Do substeps listed below:</p> <p>(1) Open door 45R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).</p> <p>(3) Does continuity exist between:</p> <p>52P-R066B <input type="checkbox"/> pin T or <input type="checkbox"/> pin q and 61P-R016A pin 85  52P-R066B <input type="checkbox"/> pin k or <input type="checkbox"/> pin s and 61P-R016A pin 10? .....</p> <p>e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step j .....</p> <p>f. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step j .....</p> <p>g. Do substeps listed below:</p> <p>(1) Open door 45R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116)</p> <p>(3) Does continuity exist between:</p> <p>61P-Y203C pin F and 61J-Y200B <input type="checkbox"/> pin p or <input type="checkbox"/> pin c  61P-Y203C pin F and 61J-Y200B <input type="checkbox"/> pin q or <input type="checkbox"/> pin x  61P-Y203C pin N and 61J-Y200B <input type="checkbox"/> pin M or <input type="checkbox"/> pin w  61P-Y203C pin N and 61J-Y200B <input type="checkbox"/> pin N or <input type="checkbox"/> pin GG? .....</p> <p>h. Does continuity exist between:</p> <p>52P-R066B <input type="checkbox"/> pin M or <input type="checkbox"/> pin w and aircraft ground  52P-R066B <input type="checkbox"/> pin N or <input type="checkbox"/> pin GG and aircraft ground  52P-R066B <input type="checkbox"/> pin p or <input type="checkbox"/> pin c and aircraft ground  52P-R066B <input type="checkbox"/> pin Q or <input type="checkbox"/> pin x and aircraft ground? .....</p> <p>i. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step j .....</p>	<p>d</p> <p>e</p> <p>-</p> <p>-</p> <p>-</p> <p>f</p> <p>e</p> <p>-</p>	<p>g</p> <p>f</p> <p>-</p> <p>-</p> <p>-</p> <p>h</p> <p>i</p> <p>-</p>


Table 4. Station 6 Word 1 Data Readout XXX4XX (Continued)

Procedure	No	Yes
j. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) 61P-Y203A		
(4) Door 45R		
(5) Remove jumper wire (61P-Y203C) .....	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p><input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 5. Station 6 Word 1 Data Readout XXX1XX OR XXXX4X

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-116( )	
Aircraft Wiring	
Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	

Table 5. Station 6 Word 1 Data Readout XXX1XX OR XXXX4X (Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C, (LAU-116 umbilical connector).		
(3) In right main landing gear door, disconnect 61P-R016B from J2 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin E and 61P-R016B <input type="checkbox"/> 1 pin 11 or <input type="checkbox"/> 2 pin 19? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between <input type="checkbox"/> 1 52P-R066B pin F and 61P-R016B pin 11 or <input type="checkbox"/> 2 52P-R066B pin L and 61P-R016B pin 19? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-



**Table 5. Station 6 Word 1 Data Readout XXX1XX OR XXXX4X (Continued)**

Procedure	No	Yes
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016B		
(3) 61P-Y203C		
(4) Door 45R .....	-	-
<b>LEGEND</b> <input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 6. Station 6 Word 1 Data Readout XXXX1X OR XXXX2X**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	

Table 6. Station 6 Word 1 Data Readout XXXX1X OR XXXX2X (Continued)




Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin J and 61P-R016A pin 37? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-R066B  pin U or  pin b and 61P-R016A pin 37? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-

Table 6. Station 6 Word 1 Data Readout XXXX1X OR XXXX2X (Continued)

Procedure	No	Yes
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) 61P-Y203C		
(4) Door 45R .....	-	-
<b>LEGEND</b> <input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		


Table 7. Station 6 Word 1 Data Readout XXXXX2 or XXXXX4

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

Table 7. Station 6 Word 1 Data Readout XXXXX2 or XXXXX4 (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin K and 61P-R016A pin 83? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 LAU-116).		
(3) Does continuity exist between 52P-R066B <span style="border: 1px solid black; padding: 0 2px;">1</span> pin E or <span style="border: 1px solid black; padding: 0 2px;">2</span> pin K and 61P-R016A pin 83? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) 61P-Y203C		
(4) Door 45R .....	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p><span style="border: 1px solid black; padding: 0 2px;">1</span> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><span style="border: 1px solid black; padding: 0 2px;">2</span> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

**Table 8. Station 6 Word 1 Data Readout XXXXX1 or  
Word 2 Data Readout 1XXXXX**

<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
 <p style="margin-top: 20px;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center; margin-top: 10px;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p style="margin-top: 20px;">a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).</li> </ol>		

**Table 8. Station 6 Word 1 Data Readout XXXXX1 or  
Word 2 Data Readout 1XXXXX (Continued)**

Procedure	No	Yes
(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin P and 61P-R016A pin 17? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-R066B <input type="checkbox"/> pin S or <input type="checkbox"/> pin p and 61P-R016A pin 17? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) 61P-Y203C		
(4) Door 45R .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 WEAPON SYSTEM END TO END TEST, PART 11

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 161925 AND UP; ALSO 161702 THRU 161924 AFTER F/A-18 AFC 74

## Reference Material

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
 Line Maintenance Access Doors ..... A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorpo- ration of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Station 6 Word 2 Data Readout X5252X


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;">NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div style="display: flex; justify-content: space-between;"><div><p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p><p>(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).</p></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div></div>		



Table 1. Station 6 Word 2 Data Readout X5252X (Continued)

Procedure	No	Yes
<p>(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.</p> <p>(4) Does continuity exist between:</p> <p>61P-Y203C pin U and 61P-R016A pin 6  61P-Y203C pin Z and 61P-R016A pin 48  61P-Y203C pin c and 61P-R016A pin 58  61P-Y203C pin Y and 61P-R016A pin 59  61P-Y203C pin R and 61P-R016A pin 69? .....</p>	b	e
<p>b. Do substeps listed below:</p> <p>(1) Open door 45R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).</p> <p>(3) Does continuity exist between:</p> <p>52P-R066B <input type="checkbox"/> pin s or <input type="checkbox"/> pin e and 61P-R016A pin 6  52P-R066B <input type="checkbox"/> pin B or <input type="checkbox"/> pin G and 61P-R016A pin 48  52P-R066B <input type="checkbox"/> pin D or <input type="checkbox"/> pin j and 61P-R016A pin 58  52P-R066B <input type="checkbox"/> pin A or <input type="checkbox"/> pin KK and 61P-R016A pin 59  52P-R066B <input type="checkbox"/> pin C or <input type="checkbox"/> pin H and 61P-R016A pin 69? .....</p>	c	d
<p>c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step g .....</p>	-	-
<p>d. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step g .....</p>	-	-
<p>e. Do substeps listed below:</p> <p>(1) Open door 45R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).</p> <p>(3) In right main landing gear door, disconnect 61P-R016B from J2 on encoder-decoder.</p> <p>(4) Does continuity exist between:</p> <p><input type="checkbox"/> 52P-R066B pin P and 61P-R016B pin 5  52P-R066B pin R and 61P-R016B pin 13? .....</p> <p><input type="checkbox"/> 52P-R066B pin M and 61P-R016B pin 16  52P-R066B pin N and 61P-R016B pin 17?</p>	c	f

Table 1. Station 6 Word 2 Data Readout X5252X (Continued)

Procedure	No	Yes
f. Malfunction is caused by one of the items listed below:  (1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-730-300, WP026 00).  (2) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).  Do step g .....	-	-
g. If disconnected, removed, or opened during this procedure make sure items listed below are connected, installed or closed:  (1) 52P-R066B  (2) 61P-R016A  (3) 61P-R016B  (4) 61P-Y203C  (5) Door 45R .....	-	-
<b>LEGEND</b>  <input type="checkbox"/> 1 ➔ On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <input type="checkbox"/> 2 ➔ On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 2. Station 6 Word 2 Data Readout 12525X

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	

**Table 2. Station 6 Word 2 Data Readout 12525X (Continued)**


Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect AIM-7 test adapter from 61P-Y203 (LAU-116 umbilical connector).</li> <li>(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.</li> <li>(4) Does continuity exist between: <div style="margin-left: 40px;"> 61P-Y203C pin P and 61P-R016A pin 17  61P-Y203C pin R and 61P-R016A pin 69  61P-Y203C pin U and 61P-R016A pin 6  61P-Y203C pin Y and 61P-R016A pin 59  61P-Y203C pin Z and 61P-R016A pin 48  61P-Y203C pin c and 61P-R016A pin 68? ..... </div> </li> </ol> <p>b. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Open door 45R (A1-F18AC-LMM-010).</li> <li>(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).</li> </ol>		
	b	e

Table 2. Station 6 Word 2 Data Readout 12525X (Continued)

Procedure	No	Yes
<p>(3) Does continuity exist between:</p> <p>52P-R066B <input type="checkbox"/> pin S or <input type="checkbox"/> pin p and 61P-R016A pin 17</p> <p>52P-R066B <input type="checkbox"/> pin C or <input type="checkbox"/> pin H and 61P-R016A pin 69</p> <p>52P-R066B <input type="checkbox"/> pin s or <input type="checkbox"/> pin e and 61P-R016A pin 6</p> <p>52P-R066B <input type="checkbox"/> pin A or <input type="checkbox"/> pin KK and 61P-R016A pin 59</p> <p>52P-R066B <input type="checkbox"/> pin B or <input type="checkbox"/> pin G and 61P-R016A pin 48</p> <p>52P-R066B <input type="checkbox"/> pin D or <input type="checkbox"/> pin J and 61P-R016A pin 58? .....</p>	c	d
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step g .....	-	-
d. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step g .....	-	-
e. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) In right main landing gear door, disconnect 61P-R016B from J2 on encoder-decoder.		
(4) Does continuity exist between:		
<input type="checkbox"/> 52P-R066B pin P and 61P-R016B pin 5		
52P-R066B pin R and 61P-R016B pin 13? .....	c	f
<input type="checkbox"/> 52P-R066B pin M and 61P-R016B pin 16		
52P-R066B pin N and 61P-R016B pin 17? .....	c	f
f. Malfunction is caused by one of the items listed below:		
(1) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
(2) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).		
Do step g .....	-	-
g. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		

Table 2. Station 6 Word 2 Data Readout 12525X (Continued)

Procedure	No	Yes
(3) 61P-R016B		
(4) 61P-Y203C		
(5) Door 45R .....	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p><input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 3. Station 6 Word 2 Data Readout X2XXXX or X4XXXX

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

Table 3. Station 6 Word 2 Data Readout X2XXXX or X4XXXX (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin R and 61P-R016A pin 69? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-R066B pin C and 61P-R016A pin 69? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) 61P-Y203C		
(4) Door 45R .....	-	-

Table 4. Station 6 Word 2 Data Readout X1XXXX or XX4XXX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Aircraft Guided Missile Launcher LAU-116( )</p> <p style="margin-left: 40px;">Aircraft Wiring</p> <p style="margin-left: 40px;">Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).</li> </ol>		

Table 4. Station 6 Word 2 Data Readout X1XXXX or XX4XXX (Continued)

Procedure	No	Yes
(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin U and 61P-R016A pin 6? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-R066B <input type="checkbox"/> pin s or <input type="checkbox"/> pin e and 61P-R016A pin 6? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) 61P-Y203C		
(4) Door 45R .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		



Table 5. Station 6 Word 2 Data Readout XX1XXX or XX2XXX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

Table 5. Station 6 Word 2 Data Readout XX1XXX or XX2XXX (Continued)

Procedure	No	Yes
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin Y and 61P-R016A pin 59? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-R066B <input type="checkbox"/> pin A of <input type="checkbox"/> pin KK and 61P-R016A pin 59? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) 61P-Y203C		
(4) Door 45R .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 6. Station 6 Word 2 Data Readout XXX2XX or XXX4XX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

Table 6. Station 6 Word 2 Data Readout XXX2XX or XXX4XX (Continued)

Procedure	No	Yes
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin Z and 61P-R016A pin 48? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-R066B <input type="checkbox"/> 1 pin B of <input type="checkbox"/> 2 pin G and 61P-R016A pin 48? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) 61P-Y203C		
(4) Door 45R .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 7. Station 6 Word 2 Data Readout XXX1XX or XXXX4X


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

Table 7. Station 6 Word 2 Data Readout XXX1XX or XXXX4X (Continued)

Procedure	No	Yes
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-Y203C pin c and 61P-R016A pin 58? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Does continuity exist between 52P-R066B <input type="checkbox"/> 1 pin D or <input type="checkbox"/> 2 pin J and 61P-R016A pin 58? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) 61P-Y203C		
(4) Door 45R .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 8. Station 6 Word 2 Data Readout XXXX1X or XXXX2X


Support Equipment Required		
Part Number or Type Designation	Nomenclatur	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

Table 8. Station 6 Word 2 Data Readout XXXX1X or XXXX2X (Continued)

Procedure	No	Yes
(2) Disconnect AIM-7 test adapter from 61P-Y203C (LAU-116 umbilical connector).		
(3) Open door 45R (A1-F18AC-LMM-010).		
(4) Disconnect 52P-R066B from 61J-V200B (J2 on LAU-116).		
(5) In right main landing gear door, disconnect 61P-R016B from J2 on encoder-decoder.		
(6) Does continuity exist between:		
1 52P-R066B pin P and 61P-R016B pin 5 52P-R066B pin R and 61P-R016B pin 13? .....	b	c
2 52P-R066B pin M and 61P-R016B pin 16 52P-R066B pin N and 61P-R016B pin 17 .....	b	c
b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step d .....	-	-
c. Malfunction is caused by one of the items listed below:		
(1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).		
(2) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step d .....	-	-
d. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016B		
(3) 61P-Y203C		
(4) Door 45R .....	-	-
<b>LEGEND</b>		
1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		



Table 9. Station 6 Word 2 Data Readout XXXXX2 or XXXXX4



Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>  None		
<b>NOTE</b>  Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.  Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:  Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;">  </div> <p style="text-align: center;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect Test Breech adapter from forward breech of LAU-116.</li> </ol>		

Table 9. Station 6 Word 2 Data Readout XXXXX2 or XXXXX4 (Continued)

Procedure	No	Yes
(3) In right main landing gear door, disconnect 61P-R016C from J3 on encoder-decoder.		
(4) Does continuity exist between the center pin in the forward breech and 61P-R016C pin 8? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066A from 61J-Y200A (J1 on LAU-116).		
(3) Does continuity exist between 52P-R066A pin D and 61P-R016C pin 8? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )WDM-000) and do step f .....	-	-
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066A		
(2) 61P-R016C		
(3) Door 45R .....	-	-

**Table 10. Station 6 Word 2 Data Readout XXXXX1 or  
Word 3 Data Readout 1XXXXX**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

**Table 10. Station 6 Word 2 Data Readout XXXXX1 or  
Word 3 Data Readout 1XXXXX (Continued)**

Procedure	No	Yes
(2) Disconnect Test Breech adapter from forward breech of LAU-116.		
(3) In right main landing gear door, disconnect 61P-R016C from J3 on encoder-decoder.		
(4) Does continuity exist between the center pin in the aft breech and 61P-R016C pin 7? . . . . .	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066A from 61J-Y200A (J1 on LAU-116).		
(3) Does continuity exist between 52P-R066A pin G and 61P-R016C pin 7? . . . . .	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f . . . . .	-	-
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f . . . . .	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f . . . . .	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066A		
(2) 61P-R016C		
(3) Door 45R . . . . .	-	-

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 WEAPON SYSTEM END TO END TEST, PART 12

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 161925 AND UP; ALSO 161353 THRU 161924 AFTER F/A-18 AFC 74

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control System .....	A1-F18AC-740-200
Stores Management System Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorpo- ration of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**Table 1. Station 6 Word 3 Data Readout X2X1XX -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring No. 2 Relay Panel Assembly Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="border: 1px solid black; padding: 5px; text-align: center;"><b>WARNING</b></div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>CAUTION</b></div> <p>To prevent damage to multimeter during stray voltage testing, observe the list below:</p> <ul style="list-style-type: none"><li>a Start testing with multimeter on highest range scale.</li><li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li><li>c. Test for AC and DC voltages.</li><li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li></ul>		

**Table 1. Station 6 Word 3 Data Readout X2X1XX -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
		
<p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		
<b>NOTE</b>		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p>		
<ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>Bent/recessed pins in a connector are a common cause of stray voltage.</p>		
a. Do substeps listed below:		
(1) Do memory inspect for word 1, WP027 06.		
(2) Is word 1 data readout X1XX1X? .....	b	c
b. Is word 1 data readout X25252? .....	e	d
c. Inflight switch malfunction. Do table 1, WP027 15 .....	-	-
d. Battery armed malfunction. Do table 5, WP027 15 .....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 45R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-R066A from 61J-Y200A (J1 on LAU-116).		
(4) In right main landing gear door, disconnect 61P-R016C from J3 on encoder-decoder.		

**Table 1. Station 6 Word 3 Data Readout X2X1XX -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(5) Does continuity exist between:  52P-R066A pin A and 61P-R016C pin 5 52P-R066A pin B and 61P-R016C pin 4 52P-R066A pin C and 61P-R016C pin 12? .....	f	g
f. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step t .....	-	-
g. Do substeps listed below:  (1) In right main landing gear door, connect 61P-R016C to J3 on encoder-decoder.  (2) Turn on electrical power (A1-F18AC-LMM-000).  (3) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.  (4) Does stray voltage exist between:  52P-R066A pin A and aircraft ground 52P-R066A pin B and aircraft ground 52P-R066A pin C and aircraft ground 52P-R066A pin D and aircraft ground 52P-R066A pin G and aircraft ground? .....	h	l
h. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) In door 45R, disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).  (3) Turn on electrical power (A1-F18AC-LMM-000).  (4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.  (5) Does stray voltage exist between:  52P-R066B pin e and aircraft ground 52P-R066B pin c and aircraft ground? .....	i	n
i. Does stray voltage exist between 52P-R066B pin g and aircraft ground? .....	j	f
j. Does stray voltage exist between:  52P-R066B pin U and aircraft ground 52P-R066B pin r and aircraft ground? .....	k	s



**Table 1. Station 6 Word 3 Data Readout X2X1XX -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>k. Malfunction is caused by one of the items listed below:</p> <p>(1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p> <p>(2) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).</p> <p>Do step t ..... - -</p>		
<p>l. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In right main landing gear door, disconnect 61P-R016C from J3 on encoder-decoder.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(5) Does stray voltage exist between:</p> <p>52P-R066A pin A and aircraft ground</p> <p>52P-R066A pin B and aircraft ground</p> <p>52P-R066A pin C and aircraft ground</p> <p>52P-R066A pin D and aircraft ground</p> <p>52P-R066A pin G and aircraft ground? ..... m f</p>		
<p>m. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step t ..... - -</p>		
<p>n. Is stray voltage 115vac? ..... o r</p>		
<p>o. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Does continuity exist between 52P-R066B pin c and aircraft ground. .... f p</p>		
<p>p. Do substeps listed below:</p> <p>(1) Open door 14R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-F058D from 52J-F058D.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p>		

**Table 1. Station 6 Word 3 Data Readout X2X1XX -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between 52P-F058D pin b and aircraft ground? . . . . .	q	f
q. Isolate malfunction between No. 2 Relay Panel Assembly and 61K-F126 Station 6 Power Control Relay (A1-F18AC-420-300, WP032 00) and do step t . . . . .	-	-
r. Do table 1, WP027 20 . . . . .	-	-
s. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
52P-R066B pin U and aircraft ground		
52P-R066B pin r and aircraft ground? . . . . .	m	f
t. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066A		
(2) 52P-R066B		
(3) 61P-R016A		
(4) 61P-R016C		
(5) Door 45R . . . . .	-	-

**Table 1A. Station 6 Word 3 Data Readout X2X1XX -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Schematic 6 Power Control Schematic and Weapon Station 4. 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP031 02 and WP044 02) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring No. 10 Relay Panel Assembly Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 20px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div> </div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; margin-bottom: 20px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>CAUTION</b></div> </div> <p>To prevent damage to multimeter during stray voltage testing, observe the list below:</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage readings as an aid when doing further troubleshooting.</li> </ol>		

**Table 1A. Station 6 Word 3 Data Readout X2X1XX -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/recessed pins in a connector are a common cause of stray voltage.</p>		
a. Do substeps listed below:		
(1) Do memory inspect for word 1, WP027 06.		
(2) Is word 1 data readout X1XX1X? .....	b	c
b. Is word 1 data readout X25252? .....	e	d
c. Inflight switch malfunction. Do table 1, WP027 15 .....	-	-
d. Battery armed malfunction. Do table 5A, WP027 15 .....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 45R.		
(3) Disconnect 52P-R066A from 61J-Y200A (J1 on LAU-116).		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set 1, 2, and 3 switches to B ON.		
(6) Does stray voltage exist between:		
52P-R066A pin A and aircraft ground		
52P-R066A pin B and aircraft ground		
52P-R066A pin C and aircraft ground		
52P-R066A pin D and aircraft ground		
52P-R066A pin G and aircraft ground? .....	f	j

**Table 1A. Station 6 Word 3 Data Readout X2X1XX -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000)		
(2) In door 45R, disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set 1, 2, and 3 switches to B ON.		
(5) Does stray voltage exist between:		
52P-R066B pin FF and aircraft ground		
52P-R066B pin LL and aircraft ground? .....	g	m
g. Does stray voltage exist between 52P-R066B pin C and aircraft ground? .....	h	k
h. Does stray voltage exist between:		
52P-R066B pin b and aircraft ground		
52P-R066B pin d and aircraft ground? .....	i	r
i. Malfunction is caused by one of the items listed below:		
(1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).		
(2) Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step s .....	-	-
j. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In right main landing gear door, disconnect 61P-R016C from J3 on encoder-decoder.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set 1, 2, and 3 switches to B ON.		
(5) Does stray voltage exist between:		
52P-R066A pin A and aircraft ground		
52P-R066A pin B and aircraft ground		
52P-R066A pin C and aircraft ground		
52P-R066A pin D and aircraft ground		
52P-R066A pin G and aircraft ground? .....	l	k

**Table 1A. Station 6 Word 3 Data Readout X2X1XX -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
k. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step s .....	-	-
l. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step s .....	-	-
m. Is stray voltage 115vac? .....	n	q
n. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 52P-R066B pin LL and aircraft ground .....	k	o
o. Do substeps listed below:		
(1) Open door 79R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-V044A from No. 10 Relay Panel Assembly.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set 1, 2, and 3 switches to B ON.		
(5) Does stray voltage exist between 52P-V044A pin T and aircraft ground? .....	p	k
p. Isolate malfunction between No. 10 Relay Panel Assembly and Station 6 Power Control Relay (61K-V126) (A1-F18AC-420-300, WP042 00) and do step s .....	-	-
q. Do table 1A, WP027 20 .....	-	-
r. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set 1, 2, and 3 switches to B ON.		
(5) Does stray voltage exist between:		
52P-R066B pin b and aircraft ground		
52P-R066B pin d and aircraft ground? .....	l	k

**Table 1A. Station 6 Word 3 Data Readout X2X1XX -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
s. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066A		
(2) 52P-R066B		
(3) 52P-V044A		
(4) 61P-R016A		
(5) 61P-R016C		
(6) 61P-Y203C		
(7) Doors 45R and 143R .....		

**Table 2. Station 6 Word 3 Data Readout X4XXXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-116( )	
Aircraft Wiring	
Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	

Table 2. Station 6 Word 3 Data Readout X4XXXX (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect P4 (AIM-7 Motor Fire Cable) from J4 (Motor Fire connector on LAU-116).		
(3) In right main landing gear door, disconnect 61P-R016C from J3 on encoder-decoder.		
(4) Does continuity exist between:		
J4 pin A and 61P-R016C pin 5		
J4 pin B and 61P-R016C pin 4		
J4 shield and 61P-R016C pin 12? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066A from 61J-Y200A (J1 on LAU-116).		
(3) Does continuity exist between:		
52P-R066A pin A and 61P-R016C pin 5		
52P-R066A pin B and 61P-R016C pin 4		
52P-R066A pin C and 61P-R016C pin 12? .....	c	g
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h. ....	-	-
d. Do substeps listed below:		



Table 2. Station 6 Word 3 Data Readout X4XXXX (Continued)

Procedure	No	Yes
<p>(1) Disconnect AIM-7 Missile System Adapter from 61P-Y203C on LAU-116.</p> <p>(2) In right main landing gear door disconnect 61P-R016A from J1 on encoder-decoder.</p> <p>(3) Does continuity exist between:</p> <p>61P-Y203C pin e and 61P-R016A pin 10  61P-Y203C pin s and 61P-R016A pin 85? .....</p> <p>e. Do substeps listed below:</p> <p>(1) Open door 45R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).</p> <p>(3) Does continuity exist between:</p> <p>52P-R066B <input type="checkbox"/> pin k or <input type="checkbox"/> pin s and 61P-R016A pin 10  52P-R066B <input type="checkbox"/> pin T or <input type="checkbox"/> pin q and 61P-R016A pin 85? .....</p> <p>f. Replace Aircraft Guided Missile Launcher LAU-116 (A1-F18AC-740-300, WP026 00) and do step h .....</p> <p>g. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-200, WP008 00) and do step h .....</p> <p>h. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:</p> <p>(1) 52P-R066A</p> <p>(2) 52P-R066B</p> <p>(3) 61P-R016A</p> <p>(4) 61P-R016C</p> <p>(5) 61P-Y203C</p> <p>(6) P4 (AIM-7 Motor Fire Cable)</p> <p>(7) Door 45R .....</p>	<p>e</p> <p>c</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p>	<p>h</p> <p>f</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p>
<p style="text-align: center;"><b>LEGEND</b></p> <p><input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 3. Station 6 Word 3 Data Readout X2XXXX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-116( ) Aircraft Wiring Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div style="display: flex; justify-content: space-between;"><div><p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p><p>(2) Disconnect P4 (AIM-7 Motor Fire Cable) from J4 (Motor Fire connector on LAU-116).</p></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div></div>		

Table 3. Station 6 Word 3 Data Readout X2XXXX (Continued)

Procedure	No	Yes
(3) In right main landing gear door, disconnect 61P-R016C from J3 on encoder-decoder.		
(4) Does continuity exist between:		
J4 pin A and 61P-R016C pin 5		
J4 pin B and 61P-R016C pin 4? .....	b	d
b. Do substeps listed below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066A from 61J-Y200A (J1 on LAU-116).		
(3) Does continuity exist between:		
52P-R066A pin A and 61P-R016C pin 5		
52P-R066A pin B and 61P-R016C pin 4? .....	c	e
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step f .....	-	-
e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066A		
(2) 61P-R016C		
(3) P4 (AIM-7 Motor Fire Cable)		
(4) Door 45R .....	-	-

Table 4. Station 6 Word 3 Data Readout X1XXXX or XXX2XX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Aircraft Guided Missile Launcher LAU-116( )</p> <p style="margin-left: 40px;">Aircraft Wiring</p> <p style="margin-left: 40px;">Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p>		
Procedure	No	Yes
 <p style="margin-top: 20px;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Open door 45R (A1-F18AC-LMM-010)</li> <li>(3) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).</li> </ol>		

Table 4. Station 6 Word 3 Data Readout X1XXXX or XXX2XX (Continued)

Procedure	No	Yes
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does 28vdc exist between 52P-R066B <input type="checkbox"/> pin CC or <input type="checkbox"/> pin D and aircraft ground? .....	b	c
b. Isolate defective aircraft wiring between 52P-R066B <input type="checkbox"/> pin CC or <input type="checkbox"/> pin D and 61P-R016A pin 91 (A1-F18A( )-WDM-000) and do step g .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 52P-R066B pin g and aircraft ground? .....	e	d
d. Do substeps listed below:		
(1) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(2) Does continuity exist between:		
52P-R066B pin BB and 61P-R016A pin 8		
52P-R066B <input type="checkbox"/> pin w or <input type="checkbox"/> pin HH and 61P-R016A pin 88		
52P-R066B <input type="checkbox"/> pin z or <input type="checkbox"/> pin E and 61P-R016A pin 87? .....	e	f
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step g .....	-	-
f. Malfunction is caused by one of the items listed below:		
(1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).		
(2) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step g .....	-	-
g. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed.		
(1) 52P-R066B		
(2) 61P-R016A		
(3) Door 45R .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 5. Station 6 Word 3 Data Readout XX4XXX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Aircraft Guided Missile Launcher LAU-116( )</p> <p style="margin-left: 40px;">Aircraft Wiring</p> <p style="margin-left: 40px;">Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
 <p style="margin-top: 20px;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Open door 45R (A1-F18AC-LMM-010).</li> <li>(3) Disconnect 52P-R066B from 61J-Y200B (J2 on LAU-116).</li> <li>(4) Turn on electrical power (A1-F18AC-LMM-000).</li> </ol>		

Table 5. Station 6 Word 3 Data Readout XX4XXX (Continued)

Procedure	No	Yes
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does 28vdc exists between 52P-R066B <input type="checkbox"/> pin CC or <input type="checkbox"/> pin D and aircraft ground? .....	b	c
b. Isolate defective aircraft wiring between 52P-R066B <input type="checkbox"/> pin CC or <input type="checkbox"/> pin D and 61P-R016A pin 91 (A1-F18A( )-WDM-000) and do step g .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 52P-R066B <input type="checkbox"/> pin g or <input type="checkbox"/> pin C and aircraft ground? .....	e	d
d. Do substeps listed below:		
(1) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(2) Does continuity exist between:		
52P-R066B <input type="checkbox"/> pin AA or <input type="checkbox"/> pin F and 61P-R016A pin 16		
52P-R066B <input type="checkbox"/> pin w or <input type="checkbox"/> pin HH and 61P-R088A pin 88		
52P-R066B <input type="checkbox"/> pin z or <input type="checkbox"/> pin E and 61P-R016A pin 87? .....	e	f
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step g .....	-	-
f. Malfunction is caused by one of the items listed below:		
(1) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).		
(2) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step g .....	-	-
g. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 52P-R066B		
(2) 61P-R016A		
(3) Door 45R .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		





## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 SPARROW WEAPON STATION POWER CONTROL, PART 1

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control System .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19
Stores Management System Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorpo- ration of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incor- poration of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**Table 1. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
AIM-7 Sparrow Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP045 00 and WP043 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Memory inspect data used in this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-115C/A Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) LAU-115 Jumper Cable W56235 Left Wing Outboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) No. 7 Circuit Breaker/Relay Panel Assembly		
Procedure	No	Yes
<div><div>CAUTION</div><p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p><p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/ jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p><p>52P-C057E</p></div>		

**Table 1. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedure step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	r
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095A (LAU-115 jumper cable W56235) from LAU-115.		
(4) Connect jumper wire between 61P-W095A pin v (AIM-7 Ident) and aircraft ground.		
(5) Turn electrical power on (A1-F18AC-LMM-000).		
(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(7) On SNSR pod control box panel assembly, set RADAR switch to STBY.		
(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(9) On RDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
(c) Is 1 7F/7M/7H symbol on stores display for station 2? .....	c	d
c. Troubleshoot Station 2 Sparrow Missile Symbol Not Displayed On Stores Display (WP010 23, Table 2) .....	-	-

**Table 1. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
d. Memory inspect station 2 (weapon) power control (CORESV+4/BIT 6) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
(2) On RDDI, does DATA readout display XX3XXX? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step aa .....	-	-
f. Does 115vac exist between 61P-W095A pins LL, MM, NN and pin PP (aircraft ground)? .....	h	g
g. Replace left outboard Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step aa .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
61P-W093 pin 67 and 61P-W095A pin LL		
61P-W093 pin 77 and 61P-W095A pin MM		
61P-W093 pin 86 and 61P-W095A pin NN		
61P-W093 pin 68 and 61P-W095A pin PP? .....	i	j
(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
61P-W093 pins 56/67 and 61P-W095A pins LL/CC		
61P-W093 pins 77/78 and 61P-W095A pins MM/m		
61P-W093 pins 86/87 and 61P-W095A pins NN/n		
61P-W093 pins 9/68 and 61P-W095A pins PP/p? .....	i	j
i. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00). Do step aa .....	-	-
j. Do substeps below:		
(1) Connect 61P-W093 to AIR-AIR pylon disconnect.		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.		

**Table 1. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:</p> <p>52P-C057C pin u and 61P-W095A pin LL  52P-C057C pin t and 61P-W095A pin MM  52P-C057C pin s and 61P-W095A pin NN  Aircraft ground and 61P-W095A pin PP? . . . . .</p>	k	n
<p>(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:</p> <p>52P-C057C pin u and 61P-W095A pins LL/CC  52P-C057C pin t and 61P-W095A pins MM/m  52P-C057C pin s and 61P-W095A pins NN/n  Aircraft ground and 61P-W095A pins PP/p? . . . . .</p>	k	n
k. Do substeps below:		
(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
<p>52J-U062 pins 73/95 and 52P-C057C pin u  52J-U062 pins 74/96 and 52P-C057C pin t  52J-U062 pins 86/97 and 52P-C057C pin s  52J-U062 pin 87 and aircraft ground  ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74,  52J-U062 pin 82 and aircraft ground? . . . . .</p>	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step aa . . . . .	-	-
m. Replace left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step aa . . . . .	-	-
n. Do substeps below:		
(1) Disconnect 52P-C057E from no. 7 circuit breaker/relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between 52P-C057E pin 71 and pin 86 (aircraft ground)? . . . . .	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		

**Table 1. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 122 and 52P-C057E pin 71? . . . . .</p> <p>p. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Disconnect 52P-C057F from no. 7 circuit breaker/relay panel assembly.</p> <p>(5) Does continuity exist between 61P-F001B pin 26 and 52P-C057F pin 14? . . . . .</p> <p>q. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring, station 2 power control relay (61K-C122), and ARM STA 2 circuit breakers (61CBC056, 61CBC057, 61CBC058) (A1-F18AC-420-300, WP027 00). Do step aa . . . . .</p> <p>r. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W095A (LAU-115 jumper cable W56235) from LAU-115.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On SNSR pod control box panel assembly, set RADAR switch to STBY.</p> <p>(7) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(8) On RDDI:</p> <p>(a) Press MENU pushbutton switch.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 7F/7M/7H symbol on stores display for station 2? . . . . .</p>	<p>l</p> <p>l</p> <p>-</p> <p>v</p>	<p>e</p> <p>q</p> <p>-</p> <p>s</p>

**Table 1. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
s. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from encoder-decoder.		
(4) Does short exist between 61P-W012D pin b (AIM-7 Ident) and aircraft ground? . . . . .	t	u
t. Replace Left Wing Outboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step aa . . . . .	-	-
u. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Does short exist between 61P-W012D pin b (AIM-7 Ident) and aircraft ground? . . . . .	i	m
v. Memory inspect station 2 (weapon) power control (CORESV+4/BIT 6) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
(2) On RDDI, does DATA readout display XX3XXX? . . . . .	w	e
w. Does 115vac exist between 61P-W095A pins LL, MM, NN and pin PP (aircraft ground)? . . . . .	g	x
x. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
61P-W093 pin 67 and 61P-W095A pin LL		
61P-W093 pin 77 and 61P-W095A pin MM		
61P-W093 pin 86 and 61P-W095A pin NN? . . . . .	i	y

**Table 1. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:</p> <p>61P-W093 pins 56/67 and 61P-W095A pins LL/CC  61P-W093 pins 77/78 and 61P-W095A pins MM/m  61P-W093 pins 86/87 and 61P-W095A pins NN/n? .....</p> <p>y. Do substeps below:</p> <p>(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does 115vac exist between 52J-U062 pins 95, 96, 97, and aircraft ground? .....</p> <p>(4) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does 115vac exist between 52J-U062 pins 73, 74, 86, and aircraft ground? .....</p> <p>z. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 10L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly</p>	<p>i</p> <p>m</p> <p>m</p>	<p>y</p> <p>z</p> <p>z</p>
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
<p>(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:</p> <p>52J-U062 pin 95 and 52P-C057C pin u  52J-U062 pin 96 and 52P-C057C pin t  52J-U062 pin 97 and 52P-C057C pin s? .....</p> <p>(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:</p> <p>62J-U062 pin 73 and 52P-C057C pin u  62J-U062 pin 74 and 52P-C057C pin t  52J-U062 pin 86 and 52P-C057C pin s? .....</p>	<p>l</p> <p>l</p>	<p>q</p> <p>q</p>
aa. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		



**Table 1. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(1) 52P-C057C		
(2) 52P-C057E		
(3) 52P-C057F		
(4) 61P-W093		
(5) 61P-W012D		
(6) 61P-W095A		
(7) 61P-F001B		
(8) Doors 10L, 14R, 502, 504		
(9) Aircraft Wing Pylon SUU-63( )		
(10) Jumper wire (61P-W095A) .....	-	-

**Table 1A. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2 Power Control Schematic (A1-F18AC-740-500, WP027 00) and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as aids when doing this procedure.	
For component location, refer to WP007 00.	
Memory inspect data used in this procedure is provided in WP010 19.	

**Table 1A. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

<p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Guided Missile Launcher LAU-115C/A  Aircraft Wing Pylon SUU-63( )  Aircraft Wiring  Armament Computer CP-1342/AYQ-9(V)  LAU-115 Jumper Cable W56235  Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  No. 7 Circuit Breaker/Relay Panel Assembly  No. 11 Relay Panel Assembly</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On wing pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095A and 61P-W095B (LAU-115 jumper cable W56235) from LAU-115.		
(4) Connect jumper wire between 61P-W095A pin v (AIM-7 Ident) and aircraft ground.		
(5) Turn electrical power on (A1-F18AC-LMM-000).		
(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(7) On SNSR pod control box panel assembly, set RADAR switch to STBY.		
(8) On right Digital Display Indicator (RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		

**Table 1A. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(9) On RDDI:		
(a) Press and release MENU pushbutton until STORES option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 1 7F/7M/7H symbol on stores display for station 2? .....	c	d
c. Troubleshoot Station 2 Sparrow Missile Symbol Not Displayed On Stores Display (WP010 23 Table 2) .....	-	-
d. Memory inspect station 2 (weapon) power control (CORESV+4/BIT 6) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<b>NOTE</b>		
There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display XX3XXX? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ae .....	-	-
f. Does 115vac exist from 61P-W095B pins DD, EE, and FF to pin LL (aircraft ground)? .....	h	g
g. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step ae .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Does continuity exist between:		
61P-W093 pins 56/67 and 61P-W095B pin DD		
61P-W093 pins 77/78 and 61P-W095A pin EE		
61P-W093 pins 86/87 and 61P-W095A pin FF		
61P-W093 pins 9/68 and 61P-W095A pin LL? .....	i	j
i. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00). Do step ae .....	-	-

**Table 1A. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>j. Do substeps below:</p> <p>(1) Connect 61P-W093 to AIR-AIR pylon disconnect.</p> <p>(2) Open door 79L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-U045C from no. 11 relay panel assembly.</p> <p>(4) Does continuity exist between:</p> <p>52P-U045C pin a and 61P-W095B pins DD  52P-U045C pin d and 61P-W095B pins EE  52P-U045C pin c and 61P-W095B pins FF  Aircraft ground and 61P-W095B pins LL? . . . . .</p>	k	n
<p>k. Do substeps below:</p> <p>(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist between:</p> <p>52J-U062 pins 73/95 and 52P-U045C pin e  52J-U062 pins 74/96 and 52P-U045C pin d  52J-U062 pins 86/97 and 52P-U045C pin c  52J-U062 pins 87/82 and aircraft ground? . . . . .</p>	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ae . . . . .	-	-
m. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ae . . . . .	-	-
<p>n. Do substeps below:</p> <p>(1) Disconnect 52P-U045A from no. 11 relay panel assembly.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(4) Does 115vac exist from 52P-U045A pins A, B, and S to aircraft ground? . . . . .</p>	o	q
<p>o. Do substeps below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 10L (A1-F18AC-LMM-010).</p>		

**Table 1A. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.		
(4) Does continuity exist between:  52P-C057C pin a and 52P-U045A pin A 52P-C057C pin t and 52P-U045A pin B 52P-C057C pin s and 52P-U045A pin S? .....	l	p
p. Isolate malfunction between No. 7 Circuit Breaker/Relay Panel Assembly wiring and ARM STA 2 circuit breakers (61CBC056, 61CBC057, 61CBC058) (A1-F18AC-420-300, WP027 00). Do step ae .....	-	-
q. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Disconnect 52P-U045B from no. 11 circuit breaker/relay panel assembly.  (3) Turn electrical power on (A1-F18AC-LMM-000).  (4) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(5) Does 28vdc exist from 52P-U045B pin s to pin a (aircraft ground)? .....	r	s
r. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Open door 14R (A1-F18AC-LMM-010).  (3) Disconnect 61P-F001B from armament computer.  (4) Does continuity exist between 61P-F001B pin 122 and 52P-U045B pin s? .....	l	e
s. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Open door 14R (A1-F18AC-LMM-010).  (3) Disconnect 61P-F001B from armament computer.  (4) Disconnect 52P-U045B from no. 11 relay panel assembly.  (5) Does continuity exist between 61P-F001B pin 26 and 52P-U045B pin e? .....	l	t

**Table 1A. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
t. Isolate malfunction between No. 11 Relay Panel Assembly wiring and station 2 power control relay (61K-U122) (A1-F18AC-420-300, WP043 00). Do step ae .....	-	-
u. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095A and 61P-W095B (LAU-115 jumper cable W56235) from LAU-115.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On SNSR pod control box panel assembly, set RADAR switch to STBY.		
(7) On RDDI, set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(8) On RDDI:		
(a) Press and release MENU pushbutton until STORES option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 1 7F/7M/7H symbol on stores display for station 2? .....	y	v
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On wing pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from encoder-decoder.		
(4) Does short exist between 61P-W012D pin b and aircraft ground? .....	w	x
w. Replace Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ae .....	-	-
x. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		




**Table 1A. Sparrow Weapon Station 2 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(2) Open door 79L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-U045C from no. 11 relay panel assembly.</p> <p>(4) Does continuity exist between:</p> <p>52J-U062 pin 95 and 52P-U045C pin e</p> <p>52J-U062 pin 96 and 52P-U045C pin d</p> <p>52J-U062 pin 97 and 52P-U045C pin c? .....</p>	l	ad
<p>ad. Do substeps below:</p> <p>(1) Disconnect 52P-U045B from no. 11 relay panel assembly.</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(4) Does continuity exist between 61P-F001B pin 26 and 52P-U045B pin e? .....</p>	l	t
<p>ae. If disconnected, removed or opened during this procedure, make sure items listed below are connected, installed or closed.</p> <p>(1) 52P-C057C</p> <p>(2) 52P-U045A</p> <p>(3) 52P-U045B</p> <p>(4) 52P-U045C</p> <p>(5) 61P-W093</p> <p>(6) 61P-W012D</p> <p>(7) 61P-W095A</p> <p>(8) 61P-W095B</p> <p>(9) 61P-F001B</p> <p>(10) Doors 10L, 14R, 79L, 502, 504</p> <p>(11) Aircraft Wing Pylon SUU-63( )</p> <p>(12) Remove jumper wire (61P-W095A) .....</p>	-	-



**Table 2. Sparrow Weapon Station 4 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
<p>AIM-7 Sparrow Avionic Interface Schematic and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00 and WP045 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wiring            Armament Computer CP-1342/AYQ-9(V)            Left Fuselage Aircraft Guided Missile Launcher LAU-116( )            Left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)            No. 7 Circuit Breaker/Relay Panel Assembly</p>		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p>52P-C057E</p>		

**Table 2. Sparrow Weapon Station 4 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	p
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect test set from 61P-Y203C pin 1 (AIM-7 Ident) and aircraft ground.		
(3) Connect jumper wire between 61P-Y203C pin a (AIM-7 Ident) and aircraft ground.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On SNSR pod control box panel assembly, set RADAR switch to STBY.		
(7) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(8) On RDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
(c) Is 1 7F/7M/7H symbol on stores display for station 4? .....	c	d
c. Troubleshoot Station 4 Sparrow Missile Symbol Not Displayed On Stores Display (WP010 25, Table 2) .....	-	-
d. Memory inspect station 4 (weapon) power control CORESV/BIT 13 by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV (table 2, WP010 19).		
(2) On RDDI, does DATA readout display XXXXX5? .....	e	f

**Table 2. Sparrow Weapon Station 4 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step x .....	-	-
f. Does 115vac exist between 61P-Y203C pins j, W, X and pin A (aircraft ground)? .....	h	g
g. Replace test set. Do step x .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 45L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-P064B from LAU-116 launcher.		
(4) Does continuity exist on LAU-116 between:		
61J-Y200B pin e and 61P-Y203C pin j		
61J-Y200B pin L and 61P-Y203C pin W		
61J-Y200B pin K and 61P-Y203C pin X		
61J-Y200B pin c and 61P-Y203C pin A? .....	i	j
i. Replace left fuselage Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00). Do step x .....	-	-
j. Do substeps below:		
(1) Open door 10L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.		
(3) Does continuity exist between:		
52P-P064B pin e and 52P-C057C pin g		
52P-P064B pin L and 52P-C057C pin f		
52P-P064B pin K and 52P-C057C pin e		
52P-P064B pin c and aircraft ground? .....	k	l
k. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step x .....	-	-
l. Do substeps below:		
(1) Disconnect 52P-C057E from no. 7 circuit breaker/relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		

**Table 2. Sparrow Weapon Station 4 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between 52P-C057E pin 71 and pin 86 (aircraft ground)? . . . . .	m	n
m. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 122 and 52P-C057E pin 71? . . . . .	k	e
n. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Disconnect 52P-C057F from no. 7 circuit breaker/relay panel assembly.		
(5) Does continuity exist between 61P-F001B pin 22 and 52P-C057F pin 37? . . . . .	k	o
o. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring, station 4 power control relay (61K-C124), and ARM STA 4 circuit breakers (61CBC064, 61CBC065, 61CBC066) (A1-F18AC-420-300, WP027 00). Do step x . . . . .	-	-
p. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect test set from 61P-Y203C on LAU-116 launcher.		
(3) Turn electrical power on (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) On SNSR pod control box panel assembly, set RADAR switch to STBY.		
(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		

**Table 2. Sparrow Weapon Station 4 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(7) On RDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
(c) Is 1 7F/7M/7H symbol on stores display for station 4? .....	t	q
q. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) In left main landing gear door, disconnect 61P-P014A from encoder-decoder.		
(3) Does short exist between 61P-P014A pin 33 (AIM-7 Ident) and aircraft ground? .....	r	s
r. Replace left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00). Do step x .....	-	-
s. Do substeps below:		
(1) Open door 45L (A1-F18AC-LMM-000).		
(2) Disconnect 52P-P064B from LAU-116 launcher.		
(3) Does short exist between 61P-P014A pin 33 and aircraft ground? .....	i	k
t. Memory inspect station 4 (weapon) power control (CORESV/BIT 13) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV (table 2, WP010 19).		
(2) On RDDI, does DATA readout display XXXXX5? .....	u	e
u. Does 115vac exist between 61P-Y203C pins j, W, X and aircraft ground? .....	g	v
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 45L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-P064B from LAU-116 launcher.		

**Table 2. Sparrow Weapon Station 4 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) Does continuity exist on LAU-116 between:		
61J-Y200B pin e and 61P-Y203C pin j		
61J-Y200B pin L and 61P-Y203C pin W		
61J-Y200B pin K and 61P-Y203C pin X? .....	i	w
w. Do substeps below:		
(1) Open door 10L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(3) Does continuity exist between:		
52P-C057C pin g and 52P-P064B pin e		
52P-C057C pin f and 52P-P064B pin L		
52P-C057C pin e and 52P-P064B pin K? .....	k	o
x. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		
(1) 52P-C057C		
(2) 52P-C057E		
(3) 52P-C057F		
(4) 52P-P064B		
(5) 61P-F001B		
(6) 61P-P014A		
(7) 61P-Y203C		
(8) Doors 10L, 14R, 45L		
(9) Jumper wire (61P-Y203C) .....	-	-

**Table 2A. Sparrow Weapon Station 4 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 4 Power Control and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP029 00 and WP044 00) may be used as aids when doing this procedure.		
For component location, refer to WP007 00		
Memory inspect data used in this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Left Fuselage Aircraft Guided Missile Launcher LAU-116 ( ) Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) No. 7 Circuit Breaker/Relay Panel Assembly No. 11 Relay Panel Assembly		
Procedure	No	Yes
NOTE		
The question used in logic tree "Does continuity exist" means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	s
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		

**Table 2A. Sparrow Weapon Station 4 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) If connected, disconnect test set from 61P-Y203C on LAU-116 launcher.		
(3) Connect jumper wire between 61P-Y203C pin a (AIM-7 Ident) and aircraft ground.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On SNSR pod control box panel assembly, set RADAR switch to STBY.		
(7) On right Digital Display Indicator (RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(8) On RDDI:		
(a) Press and release MENU pushbutton until STORES option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 1 7F/7M/7H symbol on stores display for station 4? .....	c	d
c. Troubleshoot Station 4 Sparrow Missile Symbol Not Displayed On Stores Display (WP010 25, Table 2) .....	-	-
d. Memory inspect station 4 (weapon) power control CORESV/BIT 13 by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV (table 2, WP010 19).		
<b>NOTE</b>		
There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display XXXXX5? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ab .....	-	-
f. Does 115vac exist from 61P-Y203C pins j, W, and X to pin A (aircraft ground)? .....	h	g
g. Replace test set. Do step ab .....	-	-



**Table 2A. Sparrow Weapon Station 4 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>h. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 45L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-P064B from LAU-116 launcher.</p> <p>(4) Does continuity exist on LAU-116 between:</p> <p>61J-Y200B pin FF and 61P-Y203C pin j</p> <p>61J-Y200B pin EE and 61P-Y203C pin W</p> <p>61J-Y200B pin DD and 61P-Y203C pin X</p> <p>61J-Y200B pin LL and 61P-Y203C pin A? . . . . .</p>	i	j
<p>i. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00). Do step ab . . . . .</p>	-	-
<p>j. Do substeps below:</p> <p>(1) Open door 79L (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-U045A from no. 11 relay panel assembly.</p> <p>(3) Does continuity exist between:</p> <p>52P-P064B pin FF and 52P-U045A pin T</p> <p>52P-P064B pin EE and 52P-U045A pin U</p> <p>52P-P064B pin LL and aircraft ground?</p> <p>52P-P064B pin DD and 52P-U045A pin V . . . . .</p>	k	l
<p>k. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ab . . . . .</p>	-	-
<p>l. Do substeps below:</p> <p>(1) Disconnect 52P-U045B from no. 11 circuit breaker/relay panel assembly.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(4) Does 28vdc exist between 52P-U045B pin s and pin a (aircraft ground)? . . . . .</p>	m	n
<p>m. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p>		

**Table 2A. Sparrow Weapon Station 4 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 122 and 52P-U045B pin s? . . . . .</p> <p>n. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 22 and 52P-U045B pin x? . . . . .</p> <p>o. Do substeps below:</p> <p>(1) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(2) Does 115vac exist from 52P-U045A pins Y, X, and W to aircraft ground? . . . . .</p> <p>p. Do substeps below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 10L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.</p> <p>(4) Does continuity exist between:</p> <p>52P-C057C pin M and 52P-U045A pin Y</p> <p>52P-C057C pin A and 52P-U045A pin X</p> <p>52P-C057C pin Z and 52P-U045A pin W? . . . . .</p> <p>q. Isolate malfunction between No. 7 Circuit Breaker/Relay Panel Assembly wiring and ARM STA 4 circuit breakers (61CBC064, 61CBC065, 61CBC066), (A1-F18AC-420-300, WP027 00). Do step ab . . . . .</p> <p>r. Isolate malfunction between No. 11 Relay Panel Assembly wiring and station 4 power control relay (61K-U124) (A1-F18AC-420-300, WP043 00). Do step ab . . . . .</p> <p>s. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p>	<p>k</p> <p>k</p> <p>p</p> <p>k</p> <p>-</p> <p>-</p>	<p>e</p> <p>o</p> <p>r</p> <p>q</p> <p>-</p> <p>-</p>

**Table 2A. Sparrow Weapon Station 4 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(2) If connected, disconnect test set from 61P-Y203C on LAU-116 launcher.</p> <p>(3) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(5) On SNSR pod control box panel assembly, set RADAR switch to STBY.</p> <p>(6) On right Digital Display Indicator (RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 7F/7M/7H symbol on stores display for station 4? . . . . .</p>		
t. Do substeps below:		
<p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) In left main landing gear door, disconnect 61P-P014A from encoder-decoder.</p> <p>(3) Does short exist between 61P-P014A pin 33 (AIM-7 Ident) and aircraft ground? . . . . .</p>	w	t
u. Replace left Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) A1-F18AC-740-300, WP008 00). Do step ab . . . . .	u	v
v. Do substeps below:	-	-
<p>(1) Open door 45L (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 52P-P064B from LAU-116 launcher.</p> <p>(3) Does short exist between 61P-P014A pin 33 and aircraft ground? . . . . .</p>	i	k
w. Memory inspect station 4 (weapon) power control (CORESV/BIT 13) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV (table 2, WP010 19).		

**Table 2A. Sparrow Weapon Station 4 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display XXXXX5? .....	x	e
x. Does 115vac exist from 61P-Y203C pins j, W, and X to aircraft ground? .....	g	y
y. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 45L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-P064B from LAU-116 launcher.		
(4) Does continuity exist on LAU-116 between:		
61J-Y200B pin FF and 61P-Y203C pin j		
61J-Y200B pin EE and 61P-Y203C pin W		
61J-Y200B pin DD and 61P-Y203C pin X? .....	i	z
z. Do substeps below:		
(1) Open door 79L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-U045A from no. 11 relay panel assembly.		
(3) Does continuity exist between:		
52P-U045A pin T and 52P-P064B pin FF		
52P-U045A pin U and 52P-P064B pin EE		
52P-U045A pin V and 52P-P064B pin DD? .....	k	aa
aa. Do substeps below:		
(1) Open door 14R (A1-F18AC-LMM-010).		
(2) Disconnect 61P-F001B from armament computer.		
(3) Does continuity exist between 61P-F001B pin 22 and 52P-U045B pin x? .....	k	r

**Table 2A. Sparrow Weapon Station 4 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
ab. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		
(1) 52P-C057C		
(2) 52P-P064B		
(3) 52P-U045A		
(4) 52P-U045B		
(5) 61P-F001B		
(6) 61P-P014A		
(7) 61P-Y203C		
(8) Doors 10L, 14R, 79L, 45L		
(9) Remove jumper wire (61P-Y203C) .....	-	-

**Table 3. Sparrow Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 3 Power Control Schematic (A1-F18AC-740-500, WP028 00 and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP043 00) may be used as aids when doing this procedure.	
For component location, refer to WP007 00.	
Memory inspect data used in this procedure is provided in WP010 19.	

**Table 3. Sparrow Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Malfunction is caused by one of the items listed below:

Aircraft Guided Missile Launcher LAU-115C/A  
Aircraft Wing Pylon SUU-63( )  
Aircraft Wiring  
Armament Computer CP-1342/AYQ-9(V)  
LAU-115 Jumper Cable W56235  
Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  
No. 7 Circuit Breaker/Relay Panel Assembly  
No. 11 Relay Panel Assembly

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On wing pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095A and 61P-W095B (LAU-115 jumper cable W56235) from LAU-115.		
(4) Connect jumper wire between 61P-W095A pin v and aircraft ground.		
(5) Turn electrical power on (A1-F18AC-LMM-000).		
(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(7) On SNSR pod control box panel assembly, set RADAR switch to STBY.		
(8) On right Digital Display Indicator (RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		

**Table 3. Sparrow Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(9) On RDDI:		
(a) Press and release MENU pushbutton until STORES option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 1 7F/7M/7H symbol on stores display for station 3? .....	c	d
c. Troubleshoot Station 3 Sparrow Missile Symbol Not Displayed On Stores Display (WP010 24, Table 4). Do step ae .....	-	-
d. Memory inspect station 3 (weapon) power control (CORESV+4/BIT 13) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<b>NOTE</b>		
There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display XXXXX6? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ae .....	-	-
f. Does 115vac exist from 61P-W095B pins DD, EE, and FF to pin LL (aircraft ground)? .....	h	g
g. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step ae .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Does continuity exist between:		
61P-W093 pins 56/67 and 61P-W095B pin DD		
61P-W093 pins 77/78 and 61P-W095A pin EE		
61P-W093 pins 86/87 and 61P-W095A pin FF		
61P-W093 pins 9/68 and 61P-W095A pin LL? .....	i	j
i. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00). Do step ae .....	-	-

**Table 3. Sparrow Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
j. Do substeps below:		
(1) Connect 61P-W093 to AIR-AIR pylon disconnect.		
(2) Open door 79L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-U045C from no. 11 relay panel assembly.		
(4) Does continuity exist between:		
52P-U045C pin f and 61P-W095B pins DD		
52P-U045C pin T and 61P-W095B pins EE		
52P-U045C pin U and 61P-W095B pins FF		
Aircraft ground and 61P-W095B pins LL? .....	k	n
k. Do substeps below:		
(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-U063 pins 73/95 and 52P-U045C pin f		
52J-U063 pins 74/96 and 52P-U045C pin T		
52J-U063 pins 86/97 and 52P-U045C pin U		
52J-U063 pins 87/82 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ae .....	-	-
m. Replace left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ae .....	-	-
n. Do substeps below:		
(1) Disconnect 52P-U045A from no. 11 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(4) Does 115vac exist between:		
52P-U045A pin d and aircraft ground		
52P-U045A pin c and aircraft ground		
52P-U045A pin f and aircraft ground? .....	o	q



**Table 3. Sparrow Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>o. Do substeps below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 10L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.</p> <p>(4) Does continuity exist between:</p> <p>52P-C057C pin p and 52P-U045A pin d</p> <p>52P-C057C pin n and 52P-U045A pin c</p> <p>52P-C057C pin m and 52P-U045A pin f? . . . . .</p> <p>p. Isolate malfunction between No. 7 Circuit Breaker/Relay Panel Assembly wiring and ARM STA 3 circuit breakers (61CBC060, 61CBC061, 61CBC062) (A1-F18AC-420-300, WP027 00). Do step ae . . . . .</p>	l	p
<p>q. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 52P-U045B from no. 11 relay panel assembly.</p> <p>(3) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(5) Does 28vdc exist from 52P-U045B pin s to pin u (aircraft ground)? . . . . .</p>	r	s
<p>r. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 122 and 52P-U045B pin s? . . . . .</p>	l	e
<p>s. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p>		

**Table 3. Sparrow Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(3) Disconnect 61P-F001B from armament computer.		
(4) Disconnect 52P-U045B from no. 11 relay panel assembly.		
(5) Does continuity exist between 61P-F001B pin 23 and 52P-U045B pin d? .....	l	t
t. Isolate malfunction between No. 11 Relay Panel Assembly wiring and station 3 power control relay (61K-U123) (A1-F18AC-420-300, WP043 00). Do step ae .....	-	-
u. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On wing pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095A and 61P-W095B (LAU-115 jumper cable W56235) from LAU-115.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON or 3 seconds.		
(6) On SNSR pod control box panel assembly, set RADAR switch to STBY.		
(7) On right Digital Display Indicator (RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(8) On RDDI:		
(a) Press and release MENU pushbutton until STORES option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 1 7F/7M/7H symbol on stores display for station 3? .....	y	v
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On wing pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from encoder-decoder.		
(4) Does a short exist between 61P-W012D pin b and aircraft ground? .....	w	x

**Table 3. Sparrow Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
w. Replace Left Wing Inboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ae .....	-	-
x. Do substeps below:		
(1) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(2) Does a short exist between 61P-W012D pin b and aircraft ground? .....	i	m
y. Memory inspect station 3 (weapon) power control (CORESV+4/BIT 13) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXXX6? .....	z	e
z. Does 115vac exist from 61P-W095B pins DD, EE, and FF to pin LL (aircraft ground)? .....	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Does continuity exist between:		
61P-W093 pins 56/67 and 61P-W095B pins DD		
61P-W093 pins 77/78 and 61P-W095B pins EE		
61P-W093 pins 86/87 and 61P-W095B pins FF? .....	i	ab
ab. Do substeps below:		
(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300,WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist from 52J-U063 pins 95, 96, and 97 to aircraft ground? .....	m	ac
ac. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		

**Table 3. Sparrow Weapon Station 3 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(2) Open door 79L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-U045C from no. 11 relay panel assembly.</p> <p>(4) Does continuity exist between:</p> <p>52J-U063 pin 95 and 52P-U045C pin f</p> <p>52J-U063 pin 96 and 52P-U045C pin T</p> <p>52J-U063 pin 97 and 52P-U045C pin U? .....</p>	l	ad
<p>ad. Do substeps below:</p> <p>(1) Disconnect 52P-U045B from no. 11 relay panel assembly.</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(4) Does continuity exist between 61P-F001B pin 23 and 52P-U045B pin d? .....</p>	l	t
<p>ae. If disconnected, removed or opened during this procedure, make sure items listed below are connected, installed or closed.</p> <p>(1) 52P-C057C</p> <p>(2) 52P-U045A</p> <p>(3) 52P-U045B</p> <p>(4) 52P-U045C</p> <p>(5) 61P-W093</p> <p>(6) 61P-W012D</p> <p>(7) 61P-W095A</p> <p>(8) 61P-W095B</p> <p>(9) 61P-F001B</p> <p>(10) Doors 10L, 14R, 79L, 502, 504</p> <p>(11) Aircraft Wing Pylon SUU-63( )</p> <p>(12) Remove jumper wire (61P-W095A) .....</p>	-	-

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-7 SPARROW WEAPON STATION POWER CONTROL, PART 2

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control System .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19
Stores Management System Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Coverage Only
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

**Table 1. Sparrow Weapon Station 6 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
AIM-7 Sparrow Avionic Interface Schematic and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP045 00 and WP044 00) may be used as an aid when doing this procedure.		
For component locations, refer to WP007 00.		
Memory inspect data used in this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) No. 2 Circuit Breaker Panel Assembly No. 2 Relay Panel Assembly No. 4 Circuit Breaker Panel Assembly Right Fuselage Aircraft Guided Missile Launcher LAU-116( ) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

**Table 1. Sparrow Weapon Station 6 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	t
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect test set from 61P-Y203C on LAU-116 launcher.		
(3) Connect jumper wire between 61P-Y203C pin a (AIM-7 Ident) and aircraft ground.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On SNSR pod control box panel assembly, set RADAR switch to STBY.		
(7) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(8) On RDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		
(c) Is 1 7F/7M/7H symbol on stores display for station 6? .....	c	d
c. Troubleshoot Station 6 Sparrow Missile Symbol Not Displayed On Stores Display (WP010 26, Table 3) .....	-	-

**Table 1. Sparrow Weapon Station 6 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
d. Memory inspect station 6 (weapon) power control (CORESV+2/BIT 6) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).		
(2) On RDDI, does DATA readout display XX1XXX? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step a .....	-	-
f. Does 115vac exist between 61P-Y203C pins j, W, X and pin A (aircraft ground)? .....	h	g
g. Replace test set. Do step ab .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 45R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-R066B from LAU-116 launcher.		
(4) Does continuity exist on LAU-116 between:		
61J-Y200B pin e and 61P-Y203C pin j		
61J-Y200B pin L and 61P-Y203C pin W		
61J-Y200B pin K and 61P-Y203C pin X		
61J-Y200B pin c and 61P-Y203C pin A? .....	i	j
i. Replace right fuselage Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00). Do step a .....	-	-
j. Do substeps below:		
(1) Open door 14R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-F058D from no. 2 relay panel assembly.		
(3) Does continuity exist between:		
52P-R066B pin e and 52P-F058D pin b		
52P-R066B pin L and 52P-F058D pin a		
52P-R066B pin K and 52P-F058D pin Z		
52P-R066B pin c and aircraft ground? .....	k	l
k. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step a .....	-	-



**Table 1. Sparrow Weapon Station 6 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>l. Do substeps below:</p> <p>(1) Disconnect 52P-F058C from no. 2 relay panel assembly.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(4) Does 28vdc exist between 52P-F058C pin 38 and pin 78 (aircraft ground)? . . . . .</p>	m	n
<p>m. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-F001B from armament computer.</p> <p>(3) Does continuity exist between 61P-F001B pin 24 and 52P-F058C pin 38? . . . . .</p>	k	e
<p>n. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-F001B from armament computer.</p> <p>(3) Disconnect 52P-F058C from no. 2 relay panel assembly.</p> <p>(4) Does continuity exist between 61P-F001B pin 20 and 52P-F058C pin 85? . . . . .</p>	k	o
<p>o. Do substeps below:</p> <p>(1) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(2) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(3) Does 115vac exist between 52P-F058D pins W, X, Y, and aircraft ground? . . . . .</p>	q	p
<p>p. Isolate malfunction between no. 2 relay panel assembly wiring and station 6 power control relay (61K-F126) (A1-F18AC-420-300, WP032 00). Do step ab . . . . .</p>	-	-
<p>q. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 10R (A1-F18AC-LMM-010).</p>		

**Table 1. Sparrow Weapon Station 6 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(3) On 161353 THRU 161359, disconnect 52P-D026C from no. 4 circuit breaker panel assembly.</p> <p>(4) On 161360 AND UP, disconnect 52P-D024C from no. 2 circuit breaker panel assembly.</p> <p>(5) On 161353 THRU 161359, does continuity exist between:</p> <p>52P-D026C pin r and 52P-F058D pin W  52P-D026C pin s and 52P-F058D pin X  52P-D026C pin t and 52P-F058D pin Y? . . . . .</p> <p>(6) On 161360 AND UP, does continuity exist between:</p> <p>52P-D024C pin f and 52P-F058D pin W  52P-D024C pin B and 52P-F058D pin X  52P-D024C pin t and 52P-F058D pin Y? . . . . .</p> <p>r. Isolate malfunction between No. 4 Circuit Breaker Panel Assembly wiring and ARM STA 6 circuit breakers (61CBD072, 61CBD073, and 61CBD074) (A1-F18AC-420-300, WP024 00). Do step ab . . . . .</p> <p>s. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) If connected, disconnect test set from 61P-Y203C on LAU-116 launcher.</p> <p>(3) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(5) On SNSR pod control box panel assembly, set RADAR switch to STBY.</p> <p>(6) On RDDI, set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 7F/7M/7H symbol on stores display for station 6? . . . . .</p> <p>t. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) In right main landing gear door, disconnect 61P-R016A from encoder-decoder.</p>	<p>k</p> <p>k</p> <p>-</p> <p>w</p>	<p>r</p> <p>s</p> <p>-</p> <p>t</p>

**Table 1. Sparrow Weapon Station 6 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
(3) Does short exist between 61P-R016A pin 33 (AIM-7 Ident) and aircraft ground? .....	u	v
u. Replace right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00). Do step ab .....	-	-
v. Do substeps below:		
(1) Open door 45R (A1-F18AC-LMM-000).		
(2) Disconnect 52P-R066B from LAU-116 launcher.		
(3) Does short exist between 61P-R016A pin 33 and aircraft ground? .....	i	k
w. Memory inspect station 6 (weapon) power control (CORESV+2/BIT 6) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).		
(2) On RDDI, does DATA readout display XX1XXX? .....	y	e
y. Does 115vac exist between 61P-Y203C pins j, W, X and aircraft ground? .....	g	z
z. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 45R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-R066B from LAU-116 launcher.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) Does continuity exist on LAU-116 between:		
61J-Y200B pin e and 61P-Y203C pin j		
61J-Y200B pin L and 61P-Y203C pin W		
61J-Y200B pin K and 61P-Y203C pin X? .....	i	aa
aa. Do substeps below:		
(1) Open door 14R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-F058D from no. 2 relay panel assembly.		

**Table 1. Sparrow Weapon Station 6 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(3) Does continuity exist between: 52P-F058D pin b and 52P-R066B pin e 52P-F058D pin a and 52P-R066B pin L 52P-F058D pin Z and 52P-R066B pin K? .....	k	p
a. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		
(1) 52P-D024C		
(2) 52P-D026C		
(3) 52P-F058C		
(4) 52P-F058D		
(5) 52P-R066B		
(6) 61P-F001B		
(7) 61P-R016A		
(8) 61P-Y203C		
(9) Doors 10R, 14R, 45R		
(10) Jumper wire (61P-Y203C) .....	-	-

**Table 1A. Sparrow Weapon Station 6 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 6 Power Control Schematic (A1-F18AC-740-500, WP031 02) and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p>		
<p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 20px;">Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) No. 2 Circuit Breaker Panel Assembly No. 10 Relay Panel Assembly Right Fuselage Aircraft Guided Missile Launcher LAU-116( ) Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<b>NOTE</b>		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	s
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect test set from 61P-Y203C on LAU-116 launcher.		

**Table 1A. Sparrow Weapon Station 6 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(3) Connect jumper wire between 61P-Y203C pin a (AIM-7 Ident) and aircraft ground.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On SNSR pod control box panel assembly, set RADAR switch to STBY.</p> <p>(7) On right Digital Display Indicator (RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(8) On RDDI:</p> <p>(a) Press MENU pushbutton switch until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 7F/7M/7H symbol on stores display for station 6? . . . . .</p>		
c. Troubleshoot Station 6 Sparrow Missile Symbol Not Displayed On Stores Display (WP010 26, Table 3) . . . . .	-	-
d. Memory inspect station 6 (weapon) power control (CORESV+2/BIT 6) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display X2XXXX? . . . . .	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ab . . . . .	-	-
f. Does 115vac exist between 61P-Y203C pins j, W, X and pin A (aircraft ground)? . . . . .	h	g
g. Replace test set. Do step ab . . . . .	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 45R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-R066B from LAU-116 launcher.		

**Table 1A. Sparrow Weapon Station 6 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(4) Does continuity exist on LAU-116 between:</p> <p>61J-Y200B pin FF and 61P-Y203C pin j  61J-Y200B pin EE and 61P-Y203C pin W  61J-Y200B pin DD and 61P-Y203C pin X  61J-Y200B pin LL and 61P-Y203C pin A? .....</p>	i	j
<p>i. Replace right fuselage Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00). Do step ab .....</p>	-	-
<p>j. Do substeps below:</p> <p>(1) Open door 79R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-V044A from no. 10 relay panel assembly.</p> <p>(3) Does continuity exist between:</p> <p>52P-R066B pin FF and 52P-V044A pin T  52P-R066B pin EE and 52P-V044A pin U  52P-R066B pin DD and 52P-V044A pin V  52P-R066B pin LL and aircraft ground? .....</p>	k	l
<p>k. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ab .....</p>	-	-
<p>l. Do substeps below:</p> <p>(1) Disconnect 52P-V044B from no. 2 relay panel assembly.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(4) Does 28vdc exist between 52P-F058C pin 38 and pin 78 (aircraft ground)? .....</p>	m	n
<p>m. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 24 and 52P-V044B pin s? .....</p>	k	e
<p>n. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p>		

**Table 1A. Sparrow Weapon Station 6 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 20 and 52P-V044B pin x? .....	k	o
o. Do substeps below:		
(1) Turn electrical power on (A1-F18AC-LMM-000).		
(2) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(3) Does 115vac exist between 52P-V044A pins Y, X, and W to aircraft ground? .....	q	p
p. Isolate malfunction between No. 10 Relay Panel Assembly wiring and station 6 power control relay (61K-V126) (A1-F18AC-420-300, WP042 00). Do step ab .....	-	-
q. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D024C from no. 2 circuit breaker panel assembly.		
(4) Does continuity exist between:		
52P-D024C pin f and 52P-V044A pin Y		
52P-D024C pin s and 52P-V044A pin X		
52P-D024C pin t and 52P-F058D pin W? .....	k	r
r. Isolate malfunction between No. 2 Circuit Breaker Panel Assembly wiring and ARM STA 6 circuit breakers (61CBD072, 61CBD073, and 61CBD074) (A1-F18AC-420-300, WP024 00). Do step ab .....	-	-
s. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If connected, disconnect test set from 61P-Y203C on LAU-116 launcher.		
(3) Turn electrical power on (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) On SNSR pod control box panel assembly, set RADAR switch to STBY.		
(6) On RDDI, set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		



**Table 1A. Sparrow Weapon Station 6 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(7) On RDDI:		
(a) Press and release MENU pushbutton until STORES option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 1 7F/7M/7H symbol on stores display for station 6? . . . . .	w	t
t. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) In right main landing gear door, disconnect 61P-R016A from encoder-decoder.		
(3) Does short exist between 61P-R016A pin 33 (AIM-7 Ident) and aircraft ground? . . . . .	u	v
u. Replace right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00). Do step ab . . . . .	-	-
v. Do substeps below:		
(1) Open door 45R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-R066B from LAU-116 launcher.		
(3) Does short exist between 61P-R016A pin 33 and aircraft ground? . . . . .	i	k
w. Memory inspect station 6 (weapon) power control (CORESV+2/BIT 2) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display X2XXXX? . . . . .	x	e
x. Does 115vac exist between 61P-Y203C pins j, W, X and aircraft ground? . . . . .	g	y
y. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 45R (A1-F18AC-LMM-010).		

**Table 1A. Sparrow Weapon Station 6 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(3) Disconnect 52P-R066B from LAU-116 launcher.</p> <p>(4) Does continuity exist on LAU-116 between:</p> <p>61J-Y200B pin FF and 61P-Y203C pin j</p> <p>61J-Y200B pin EE and 61P-Y203C pin W</p> <p>61J-Y200B pin DD and 61P-Y203C pin X? .....</p> <p>z. Do substeps below:</p> <p>(1) Open door 79R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-V044A from no. 10 relay panel assembly.</p> <p>(3) Does continuity exist between:</p> <p>52P-V044A pin T and 52P-R066B pin FF</p> <p>52P-V044A pin u and 52P-R066B pin EE</p> <p>52P-V044A pin V and 52P-R066B pin DD? .....</p> <p>aa. Do substeps below:</p> <p>(1) Open door 14R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-F001B from armament computer.</p> <p>(3) Disconnect 52P-V044B from no. 10 relay panel assembly.</p> <p>(4) Does continuity exist between 61P-F001B pin 20 and 52P-V044B pin x? .....</p> <p>ab. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.</p> <p>(1) 52P-D024C</p> <p>(2) 52P-R066B</p> <p>(3) 52P-V044A</p> <p>(4) 52P-V044B</p> <p>(5) 61P-F001B</p> <p>(6) 61P-R016A</p> <p>(7) 61P-Y203C</p> <p>(8) Doors 10R, 14R, 45R, 79R</p> <p>(9) Remove jumper wire (61P-Y203C) .....</p>	<p>i</p> <p>k</p> <p>k</p> <p>-</p>	<p>aa</p> <p>aa</p> <p>p</p> <p>-</p>

**Table 2. Sparrow Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>  None		
<b>NOTE</b>  Weapon Station 8 Power Control Schematic and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP033 00 and WP043 00) may be used as aids when doing this procedure.  For component location, refer to WP007 00.  Memory inspect data used in this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:  <div style="margin-left: 40px;">             Aircraft Guided Missile Launcher LAU-115C/A              Aircraft Wing Pylon SUU-63( )              Aircraft Wiring              Armament Computer CP-1342/AYQ-9(V)              LAU-115 Jumper Cable W56235              No. 2 Circuit Breaker Panel Assembly              No. 10 Relay Panel Assembly              Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)           </div>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<b>NOTE</b>  The question used in logic tree “Does continuity exist” means to test for the items listed below:  <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	v

**Table 2. Sparrow Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>b. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On wing pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W095A and 61P-W095B (LAU-115 jumper cable W56235) from LAU-115 launcher.</p> <p>(4) Connect jumper wire between 61P-W095A pin v (Sparrow Ident) and aircraft ground.</p> <p>(5) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(7) On SNSR pod control box panel assembly, set RADAR switch to STBY.</p> <p>(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(9) On RDDI:</p> <p>(a) Press MENU pushbutton switch.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 7F/7M/7H symbol on stores display for station 8? . . . . .</p>		
c. Troubleshoot Station 8 Sparrow Missile Symbol Not Displayed On Stores Display (WP010 29, Table 2) . . . . .	-	-
<p>d. Memory inspect station 8 (weapon) power control (CORESV+6/BIT 11) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+6 (table 2, WP010 19).</p> <p>(2) On RDDI, does DATA readout display XXXX2X? . . . . .</p>	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ae . . . . .	-	-
f. Does 115vac exist between 61P-W095A pins LL, MM, NN and pin PP (aircraft ground)? . . . . .	h	g
g. Replace right outboard Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step ae . . . . .	-	-

Procedure	No	Yes
<p>h. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.</p> <p>(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:</p> <p style="padding-left: 40px;">61P-W093 pin 67 and 61P-W095A pin LL          61P-W093 pin 77 and 61P-W095A pin MM          61P-W093 pin 86 and 61P-W095A pin NN? .....</p> <p>(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:</p> <p style="padding-left: 40px;">61P-W093 pins 56/67 and 61P-W095A pins LL/CC          61P-W093 pins 77/78 and 61P-W095A pins MM/m          61P-W093 pins 86/87 and 61P-W095A pins NN/n          61P-W093 pins 9/68 and 61P-W095A pins PP/p? .....</p>	i	j
<p>i. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00). Do step ae .....</p>	-	-
<p>j. Do substeps below:</p> <p>(1) Connect 61P-W093 to AIR-AIR pylon disconnect.</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-F058D from no. 2 relay panel assembly.</p> <p>(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:</p> <p style="padding-left: 40px;">52P-F058D pin C and 61P-W095A pins LL          52P-F058D pin D and 61P-W095A pins MM          52P-F058D pin E and 61P-W095A pins NN          Aircraft ground and 61P-W095A pins PP? .....</p> <p>(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:</p> <p style="padding-left: 40px;">52P-F058D pin C and 61P-W095A pins LL/CC          52P-F058D pin D and 61P-W095A pins MM/m          52P-F058D pin E and 61P-W095A pins NN/n          Aircraft ground and 61P-W095A pins PP/p? .....</p>	k	n
	k	n

**Table 2. Sparrow Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
k. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-V068 pins 73/95 and 52P-F058D pin C		
52J-V068 pins 74/96 and 52P-F058D pin D		
52J-V068 pins 86/97 and 52P-F058D pin E		
52J-V068 pin 87 and aircraft ground		
162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74,		
52J-V068 pin 82 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ae .....	-	-
m. Replace right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ae .....	-	-
n. Do substeps below:		
(1) Disconnect 52P-F058C from no. 2 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between 52P-F058C pin 38 and pin 78 (aircraft ground)? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect 61P-F001B from armament computer.		
(3) Does continuity exist between 61P-F001B pin 24 and 52P-F058C pin 38? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 28 and 52P-F058C pin 73? .....	l	q

**Table 2. Sparrow Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
q. Do substeps below:		
(1) Turn electrical power on (A1-F18AC-LMM-000).		
(2) Does 115vac exist between 52P-F058D pins S, A, B, and aircraft ground? . . . . .	r	u
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) On 161363 THRU 161359, disconnect 52P-D026C from no. 4 circuit breaker panel assembly.		
(4) On 161360 AND UP, disconnect 52P-D024C from no. 2 circuit breaker panel assembly.		
(5) On 161353 THRU 161359, does continuity exist between:		
52P-D026C pin p and 52P-F058D pin S		
52P-D026C pin a and 52P-F058D pin A		
52P-D026C pin b and 52P-F058D pin B? . . . . .	l	s
(6) On 161360 AND UP, does continuity exist between:		
52P-D024C pin p and 52P-F058D pin S		
52P-D024C pin a and 52P-F058D pin A		
52P-D024C pin b and 52P-F058D pin B? . . . . .	l	t
s. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and ARM STA 8 circuit breakers (61CBD080, 61CBD081, and 61CBD082) (A1-F18AC-420-300, WP025 00). Do step ae . . . . .	-	-
t. Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 8 circuit breakers (61CBD080, 61CBD081, and 61CBD082) (A1-F18AC-420-300, WP024 00). Do step ae . . . . .	-	-
u. Isolate malfunction between no. 2 relay panel assembly wiring and station 8 power control relay (61K-F128) (A1-F18AC-420-300, WP027 00). Do step ae . . . . .	-	-
v. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095A (LAU-115 jumper cable W56235) from LAU-115 test set.		

**Table 2. Sparrow Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On SNSR pod control box panel assembly, set RADAR switch to STBY.</p> <p>(7) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(8) On RDDI:</p> <p>    (a) Press MENU pushbutton switch.</p> <p>    (b) Press STORES pushbutton switch.</p> <p>    (c) Is 1 7F/7M/7H symbol on stores display for station 8? . . . . .</p>		
<p>w. Do substeps below:</p> <p>    (1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>    (2) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>    (3) Disconnect 61P-W012D from encoder-decoder.</p> <p>    (4) Does short exist between 61P-W012D pin b (AIM-7 Ident) and aircraft ground? . . . . .</p>		
<p>x. Replace Right Wing Outboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ae . . . . .</p>	x	y
<p>y. Do substeps below:</p> <p>    (1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>    (2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.</p> <p>    (3) Does short exist between 61P-W012D pin b (AIM-7 Ident) and aircraft ground? . . . . .</p>	-	-
<p>z. Memory inspect station 8 (weapon) power control (CORESV+6/BIT 11) by doing substeps below:</p> <p>    (1) Using unit address 06, memory inspect address for ref code CORESV+6 (table 2, WP010 19).</p> <p>    (2) On RDDI, does DATA readout display XXXX2X? . . . . .</p>	i	m
	aa	e



**Table 2. Sparrow Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
aa. Does 115vac exist between 61P-W095A pins LL, MM, NN and pin PP (aircraft ground)? . . . . .  ab. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.	g	ab
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(3) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:  61P-W093 pin 67 and 61P-W095A pin LL 61P-W093 pin 77 and 61P-W095A pin MM 61P-W093 pin 86 and 61P-W095A pin NN? . . . . .	i	ac
(4) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:  61P-W093 pins 56/67 and 61P-W095A pins LL/CC 61P-W093 pins 77/78 and 61P-W095A pins MM/m 61P-W093 pins 86/87 and 61P-W095A pins NN/n? . . . . .	i	ac
ac. Do substeps below:  (1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (2) Turn electrical power on (A1-F18AC-LMM-000).  (3) Does 115vac exist between 52J-V068 pins 73/95, 74/96, 86/97 and aircraft ground? . . . . .	m	ad
ad. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Open door 14R (A1-F18AC-LMM-010).  (3) Disconnect 52P-F058D from no. 2 relay panel assembly.		

**Table 2. Sparrow Weapon Station 8 115vac Power Control Fail -  
F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) Does continuity exist between:		
52P-F058D pin C and 52J-V068 pins 73/95		
52P-F058D pin D and 52J-V068 pins 74/96		
52P-F058D pin E and 52J-V068 pins 86/97? .....	l	u
ae. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.		
(1) 52P-D024C		
(2) 52P-D026C		
(3) 52P-F058C		
(4) 52P-F058D		
(5) 61P-W093		
(6) 61P-W012D		
(7) 61P-W095A		
(8) 61P-F001B		
(9) Doors 10R, 14R, 502, 504		
(10) Aircraft Wing Pylon SUU-63( )		
(11) Jumper wire (61P-W095A) .....	-	-

**Table 2A. Sparrow Weapon Station 8 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-AFC 253 OR F/A-18 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>  None		
<b>NOTE</b>  AIM-7 Sparrow Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP045 00 and WP043 00) may be used as an aid when doing this procedure.  For component location, refer to WP007 00.  Memory inspect data used in this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:  <div style="margin-left: 40px;">             Aircraft Guided Missile Launcher LAU-115C/A              Aircraft Wing Pylon SUU-63( )              Aircraft Wiring              Armament Computer CP-1342/AYQ-9(V)              LAU-115 Jumper Cable W56235              No. 2 Circuit Breaker Panel Assembly              No. 2 Relay Panel Assembly              No. 4 Circuit Breaker Panel Assembly              Right Wing Outboard Command Signal Encoder-Decoder KY-853/AYQ-9(V)           </div>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<b>NOTE</b>  The question used in logic tree “Does continuity exist” means to test for the items listed below:  <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u

**Table 2A. Sparrow Weapon Station 8 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-AFC 253 OR F/A-18 292 (Continued)**

Procedure	No	Yes
<p>b. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W095A and 61P-W095B (LAU-115 jumper cable W56235) from LAU-115 launcher.</p> <p>(4) Connect jumper wire between 61P-W095A pin v and aircraft ground.</p> <p>(5) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(7) On SNSR pod control box panel assembly, set RADAR switch to STBY.</p> <p>(8) On right Digital Display Indicator (RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(9) On RDDI:</p> <p>(a) Press and release MENU pushbutton until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 7F/7M/7H symbol on stores display for station 8? . . . . .</p>		
c. Troubleshoot Station 8 Sparrow Missile Symbol Not Displayed On Stores Display (WP010 29, Table 2) . . . . .	-	-
<p>d. Memory inspect station 8 (weapon) power control (CORESV+8/BIT 12) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+8 (table 2, WP010 19).</p>		
<b>NOTE</b>		
<p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXX1X? . . . . .	e	f

**Table 2A. Sparrow Weapon Station 8 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-AFC 253 OR F/A-18 292 (Continued)**

Procedure	No	Yes
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ae .....	-	-
f. Does 115vac exist from 61P-W095B pins DD, EE, and FF to pin LL (aircraft ground)?	h	g
g. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step ae .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Does continuity exist between:		
61P-W093 pins 56/67 and 61P-W095B pins DD		
61P-W093 pins 77/78 and 61P-W095B pins EE		
61P-W093 pins 86/87 and 61P-W095B pins FF		
61P-W093 pins 9/68 and 61P-W095B pins LL? .....	i	j
i. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00). Do step ae .....	-	-
j. Do substeps below:		
(1) Connect 61P-W093 to AIR-AIR pylon disconnect.		
(2) Open door 79R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-V044C from no. 10 relay panel assembly.		
(4) Does continuity exist between:		
52P-V044C pin a and 61P-W095B pins DD		
52P-V044C pin d and 61P-W095B pins EE		
52P-V044C pin c and 61P-W095B pins FF		
Aircraft ground and 61P-W095B pins LL? .....	k	n
k. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-V068 pins 73/95 and 52P-V044C pin e		
52J-V068 pins 74/96 and 52P-V044C pin d		
52J-V068 pins 86/97 and 52P-V044C pin c		
52J-V068 pins 82/87 and aircraft ground? .....	l	m

**Table 2A. Sparrow Weapon Station 8 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-AFC 253 OR F/A-18 292 (Continued)**

Procedure	No	Yes
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ae .....	-	-
m. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ae .....	-	-
n. Do substeps below:		
(1) Disconnect 52P-V044B from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist from 52P-V044B pin s to pin u (aircraft ground)?	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 24 and 52P-V044B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 28 and 52P-V044B pin e? .....	l	q
q. Do substeps below:		
(1) Disconnect 52P-V044A from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist from 52P-V044A pins A, B, and S to aircraft ground? .....	r	t
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		

**Table 2A. Sparrow Weapon Station 8 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-AFC 253 OR F/A-18 292 (Continued)**

Procedure	No	Yes
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D024C from no. 2 circuit breaker panel assembly.		
(4) Does continuity exist between:		
52P-D024C pin p and 52P-V044A pin A		
52P-D024C pin a and 52P-V044A pin B		
52P-D024C pin b and 52P-V044A pin S? .....	l	s
s. Isolate malfunction between No. 2 Circuit Breaker Panel Assembly wiring and ARM STA 8 circuit breakers (61CBD080, 61CBD081, and 61CBD082) (A1-F18AC-420-300, WP024 00). Do step ae .....	-	-
t. Isolate malfunction between No. 10 Relay Panel Assembly wiring and station 8 power control relay (61K-V128) (A1-F18AC-420-300, WP042 00). Do step ae .....	-	-
u. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On wing pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095A and 61P-W095B (LAU-115 jumper cable W56235) from LAU-115.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On SNSR pod control box panel assembly, set RADAR switch to STBY.		
(7) On RDDI, set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(8) On RDDI:		
(a) Press and release MENU pushbutton until STORES option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 1 7F/7M/7H symbol on stores display for station 8? .....	y	v
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		

**Table 2A. Sparrow Weapon Station 8 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-AFC 253 OR F/A-18 292 (Continued)**

Procedure	No	Yes
(3) Disconnect 61P-W012D from encoder-decoder.		
(4) Does a short exist between 61P-W012D pin b and aircraft ground? .....	w	x
w. Replace Right Wing Outboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ae .....	-	-
x. Do substeps below:		
(1) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(2) Does a short exist between 61P-W012D pin b and aircraft ground? .....	i	m
y. Memory inspect station 8 (weapon) power control (CORESV+8/BIT 12) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+8 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXX1X? .....	z	e
z. Does 115vac exist from 61P-W095B pins DD, EE, and FF to pin LL (aircraft ground)? .....	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Does continuity exist between:		
61P-W093 pins 56/67 and 61P-W095B pins DD		
61P-W093 pins 77/78 and 61P-W095B pins EE		
61P-W093 pins 86/87 and 61P-W095B pins FF? .....	i	ab
ab. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist from 52J-V068 pins 73/95, 74/96, and 86/97 to aircraft ground? .....	m	ac



**Table 2A. Sparrow Weapon Station 8 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-AFC 253 OR F/A-18 292 (Continued)**

Procedure	No	Yes
ac. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Open door 79R (A1-F18AC-LMM-010).  (3) Disconnect 52P-V044C from no. 10 relay panel assembly.  (4) Does continuity exist between:  52P-V044C pin a and 52J-V068 pins 73/95 52P-V044C pin d and 52J-V068 pins 74/96 52P-V044C pin c and 52J-V068 pins 86/97? .....	1	ad
ad. Do substeps below:  (1) Disconnect 52P-V044B from no. 10 relay panel assembly.  (2) Open door 14R (A1-F18AC-LMM-010).  (3) Disconnect 61P-F001B from armament computer.  (4) Does continuity exist between 61P-F001B pin 28 and 52P-V044B pin e? .....	1	j
ae. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.  (1) 52P-D024C  (2) 52P-V044A  (3) 52P-V044B  (4) 52P-V044C  (5) 61P-W093  (6) 61P-W012D  (7) 61P-W095A  (8) 61P-W095B  (9) 61P-F001B  (10) Doors 10R, 14R, 79R, 502, 504  (11) Aircraft Wing Pylon SUU-63( )  (12) Remove jumper wire (61P-W095A) .....	-	-

**Table 3. Sparrow Weapon Station 7 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-AFC 253 OR F/A-18 292**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>  None		
<b>NOTE</b>  Weapon Station 7 Power Control Schematic and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP032 03 and WP043 00) may be used as aids when doing this procedure.  For component location, refer to WP007 00.  Memory inspect data used in this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:  <div style="margin-left: 40px;">             Aircraft Guided Missile Launcher LAU-115C/A              Aircraft Wing Pylon SUU-63( )              Aircraft Wiring              Armament Computer CP-1342/AYQ-9(V)              LAU-115 Jumper Cable W56235              No. 2 Circuit Breaker Panel Assembly              No. 10 Relay Panel Assembly              Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)           </div>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center;"> <b>NOTE</b>             The question used in logic tree “Does continuity exist” means to test for the items listed below:             1. Pin to pin test per procedural step.            2. Shorts to ground.            3. Shorts between surrounding pins on connectors.            4. Shorts between shield and conductors.            5. Shield continuity.         </div>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u

**Table 3. Sparrow Weapon Station 7 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-AFC 253 OR F/A-18 292 (Continued)**

Procedure	No	Yes
<p>b. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On wing pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W095A and 61P-W095B (LAU-115 jumper cable W56235) from LAU-115 launcher.</p> <p>(4) Connect jumper wire between 61P-W095A pin v and aircraft ground.</p> <p>(5) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(7) On SNSR pod control box panel assembly, set RADAR switch to STBY.</p> <p>(8) On right Digital Display Indicator (RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(9) On RDDI:</p> <p>(a) Press and release MENU pushbutton until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 7F/7M/7H symbol on stores display for station 7? . . . . .</p>		
c. Troubleshoot Station 7 Sparrow Missile Symbol Not Displayed On Stores Display (WP010 27, Table 4) . . . . .	-	-
<p>d. Memory inspect station 7 (weapon) power control (CORESV+2/BIT 13) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).</p>		
<b>NOTE</b>		
<p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXXX5? . . . . .	e	f

**Table 3. Sparrow Weapon Station 7 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-AFC 253 OR F/A-18 292 (Continued)**

Procedure	No	Yes
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ae .....	-	-
f. Does 115vac exist from 61P-W095B pins DD, EE, and FF to pin LL (aircraft ground)? .....	h	g
g. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step ae .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Does continuity exist between:		
61P-W093 pin 56/67 and 61P-W095B pin DD		
61P-W093 pin 77/78 and 61P-W095B pin EE		
61P-W093 pin 86/87 and 61P-W095B pin FF?		
61P-W093 pin 9/68 and 61P-W095B pin LL? .....	i	j
i. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00). Do step ae .....	-	-
j. Do substeps below:		
(1) Connect 61P-W093 to AIR-AIR pylon disconnect.		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-V044C from no. 10 relay panel assembly.		
(4) Does continuity exist between:		
52P-V044C pin f and 61P-W095B pins DD		
52P-V044C pin T and 61P-W095B pins EE		
52P-V044C pin U and 61P-W095B pins FF		
Aircraft ground and 61P-W095B pins LL? .....	k	n
k. Do substeps below:		
(1) Remove right Inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-V067 pins 73/95 and 52P-V044C pin f		
52J-V067 pins 74/96 and 52P-V044C pin T		
52J-V067 pins 86/97 and 52P-V044C pin U		
52J-V067 pin 82/87 and aircraft ground .....	l	m

**Table 3. Sparrow Weapon Station 7 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-AFC 253 OR F/A-18 292 (Continued)**

Procedure	No	Yes
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ae .....	-	-
m. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ae .....	-	-
n. Do substeps below:		
(1) Disconnect 52P-V044B from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist from 52P-V044B pin s to pin u (aircraft ground)? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 24 and 52P-V044B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 18 and 52P-V044B pin d? .....	l	q
q. Do substeps below:		
(1) Disconnect 52P-V044A from no. 10 relay panel assembly.		
(1) Turn electrical power on (A1-F18AC-LMM-000).		
(2) Does 115vac exist between 52P-V044A pins d, c and f, to aircraft ground? .....	r	t
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D024C from no. 2 circuit breaker panel assembly.		

**Table 3. Sparrow Weapon Station 7 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-AFC 253 OR F/A-18 292 (Continued)**

Procedure	No	Yes
<p>(4) Does continuity exist between:</p> <p>52P-D024C pin u and 52P-V044A pin d  52P-D024C pin g and 52P-V044A pin c  52P-D024C pin w and 52P-V044A pin f? .....</p>	l	s
<p>(6) On 161360 AND UP, does continuity exist between:</p> <p>52P-D024C pin p and 52P-F058D pin S  52P-D024C pin a and 52P-F058D pin A  52P-D024C pin b and 52P-F058D pin B? .....</p>	l	t
<p>s. Isolate malfunction between No. 2 Circuit Breaker Panel Assembly wiring and ARM STA 7 circuit breakers (61CBD076, 61CBD077, and 61CBD078) (A1-F18AC-420-300, WP024 00). Do step ae .....</p>	-	-
<p>t. Isolate malfunction between No. 10 Relay Panel Assembly wiring and station 7 power control relay (61K-V127) (A1-F18AC-420-300, WP042 00). Do step ae .....</p>	-	-
<p>u. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On wing pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W095A and 61P-W095B (LAU-115 jumper cable W56235) from LAU-115.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On SNSR pod control box panel assembly, set RADAR switch to STBY.</p> <p>(7) On RDDI, set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(8) On RDDI:</p> <p>(a) Press and release MENU pushbutton until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 7F/7M/7H symbol on stores display for station 7? .....</p>	y	v
<p>v. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On wing pylon, open door 504 (A1-F18AC-LMM-010).</p>		

**Table 3. Sparrow Weapon Station 7 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-AFC 253 OR F/A-18 292 (Continued)**

Procedure	No	Yes
(3) Disconnect 61P-W012D from encoder-decoder.		
(4) Does short exist between 61P-W012D pin b (AIM-7 Ident) and aircraft ground? . . . . .	w	x
w. Replace Right Wing Outboard Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ae . . . . .	-	-
x. Do substeps below:		
(1) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(2) Does a short exist between 61P-W012D pin b (AIM-7 Ident) and aircraft ground? . . . . .	i	m
y. Memory inspect station 7 (weapon) power control (CORESV+2/BIT 13) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).		
<b>NOTE</b>		
There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display XXXXX5? . . . . .	z	e
z. Does 115vac exist from 61P-W095B pins DD, EE and FF to pin LL (aircraft ground)? . . . . .	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Does continuity exist between:		
61P-W093 pin 56/67 and 61P-W095B pin DD		
61P-W093 pin 77/78 and 61P-W095B pin EE		
61P-W093 pin 86/87 and 61P-W095B pins FF? . . . . .	i	ab
ab. Do substeps below:		
(1) Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist between 52J-V067 pins 73/95, 74/96, 86/97 and aircraft ground? . . . . .	m	ac

**Table 3. Sparrow Weapon Station 7 115vac Power Control Fail -  
F/A-18A 162394 THRU 163175 AFTER F/A-AFC 253 OR F/A-18 292 (Continued)**

Procedure	No	Yes
ac. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Open door 79R (A1-F18AC-LMM-010).  (3) Disconnect 52P-V044C from no. 10 relay panel assembly.  (4) Does continuity exist between:  52P-V044C pin f and 52J-V067 pins 73/95 52P-V044C pin T and 52J-V067 pins 74/96 52P-V044C pin U and 52J-V067 pins 86/97? .....	1	ad
ad. Do substeps below:  (1) Disconnect 52P-V044B from no. 10 relay panel assembly.  (2) Open door 14R (A1-F18AC-LMM-010).  (3) Disconnect 61P-F001B from armament computer.  (4) Does continuity exist between 61P-F001B pin 18 and 52P-V044B pin d? .....	1	j
ae. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.  (1) 52P-D024C  (2) 52P-V044A  (3) 52P-V044B  (4) 52P-V044C  (5) 61P-W093  (6) 61P-W012D  (7) 61P-W095A  (8) 61P-W095B  (9) 61P-F001B  (10) Doors 10R, 14R, 79R, 502, 504  (11) Aircraft Wing Pylon SUU-63( )  (12) Remove jumper wire (61P-W095A) .....	-	-



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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**TROUBLESHOOTING - HUNG STATION STATUS**  
**STORES MANAGEMENT SYSTEM**

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**Reference Material**

Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

**Alphabetical Index**

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**Record of Applicable Technical Directives**

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	USNR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	USMCR F/A-18 A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Feb 01	-

Table 1. H+LKD or H+ULK Not Displayed on DDI


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Launcher/Rack Lock/Unlock Schematic (A1-F18AC-740-500, WP020 00), may be used as an aid when doing this procedure.		
Memory inspect data used in this procedure is provided in WP010 19.		
For component locator, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-32( ) Aircraft Fuselage Centerline Pylon SUU-62( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Connector Plate Assembly Digital Data Computer No. 2 Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Left Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div><b>NOTE</b></div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol>		

Table 1. H+LKD or H+ULK Not Displayed on DDI (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
<p>a. Do substeps listed below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open Door 14R (A1-F18AC-LMM-000).</p> <p>(3) On armament computer, set ARMAMENT switches to 24 and FUZING N and T switches to 6.</p>		
<div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>(4) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(5) Is troubleshooting being done for H + LKD not displayed on Digital Display Indicator? . . .</p>	b	q
<p>b. Do substeps below:</p> <p>(1) On station 2, 3, 7 or 8, do substeps below:</p> <p style="padding-left: 40px;">(a) Disconnect 61P-W097A from J1 on BRU-32 (failed station).</p> <p style="padding-left: 40px;">(b) Connect jumper wires between:</p> <p style="padding-left: 80px;">61P-W097A pin A and aircraft ground</p> <p style="padding-left: 80px;">61P-W097A pin T and aircraft ground</p> <p>On station 5, do substeps below:</p> <p style="padding-left: 40px;">(a) On SUU-62( ), open door 509 (A1-F18AC-LMM-010).</p> <p style="padding-left: 40px;">(b) Disconnect 61P-Z105A from J1 on BRU-32( )</p> <p style="padding-left: 40px;">(c) Connect jumper wires between:</p> <p style="padding-left: 80px;">61P-Z105A pin A and aircraft ground</p> <p style="padding-left: 80px;">61P-Z105A pin T and aircraft ground</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p>		

Table 1. H+LKD or H+ULK Not Displayed on DDI (Continued)

Procedure	No	Yes
<p>(3) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(4) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT control for best display.</p> <p>(5) On RDDI:</p> <p style="padding-left: 40px;">(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p style="padding-left: 40px;">(b) Press STORES pushbutton switch.</p> <p>(6) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(7) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(8) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(9) On master arm control panel assembly, press and release A/G switch (A/G selected).</p> <p>(10) On flaps, landing gear and stores indicator panel, press and release CTR, LI RI, LO or RO JETT STATION SELECT switch for station under test.</p> <p>(11) On LH vertical console control panel, set SELECT JETT switch to RACK/LCHR.</p> <p>(12) On LH vertical console control panel, press and release SELECT JETT switch JETT pushbutton.</p> <p>(13) Does RDDI display H+ULK in wingform for station under test? .....</p> <p>c. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00). Do step x .....</p> <p>d. Do substeps below:</p> <p style="padding-left: 40px;">(1) Using unit address 6, memory inspect address for ref code:</p> <p style="padding-left: 80px;">station 2 - MSG4 WD3 (table 2, WP010 19)</p> <p style="padding-left: 80px;">station 3 - MSG4 WD5 (table 2, WP010 19)</p> <p style="padding-left: 80px;">station 5 - MSG4 WD9 (table 2, WP010 19)</p> <p style="padding-left: 80px;">station 7 - MSG4 WD13 (table 2, WP010 19)</p> <p style="padding-left: 80px;">station 8 - MSG4 WD15 (table 2, WP010 19)</p>	<p>d</p> <p>-</p>	<p>c</p> <p>-</p>
<b>NOTE</b>		
DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display XXX1X5? .....	f	e

Table 1. H+LKD or H+ULK Not Displayed on DDI (Continued)

Procedure	No	Yes
e. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00). Do step x . . . . .	-	-
f. Is troubleshooting being done on station 5? . . . . .	g	j
g. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On wing pylon (failed station), open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012A from J1 on encoder-decoder.		
(4) Remove jumper wires from 61P-W097A pins A and T.		
(5) Does continuity exist between:		
61P-W097A pin A and 61P-W012A pin HH 61P-W097A pin T and 61P-W012A pin h? . . . . .	h	i
h. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step x . . . . .	-	-
i. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
Do step x . . . . .	-	-
j. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) In right hand main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(3) Remove jumper wires from 61P-Z105A pins A and T.		
(4) Does continuity exist between:		
61P-Z105A pin A and 61P-R016A pin 11 61P-Z105A pin T and 61P-R016A pin 78? . . . . .	k	p
k. Do substeps below:		
(1) On aircraft fuselage centerline pylon, open door 510 (A1-F18AC-LMM-010).		

Table 1. H+LKD or H+ULK Not Displayed on DDI (Continued)

Procedure	No	Yes
(2) In door 510, disconnect 61P-Z167 from 61J-Z167.		
(3) Does continuity exist between:		
61P-Z105A pin A and 61P-Z167 pin A		
61P-Z105A pin T and 61P-Z167 pin T? .....	l	m
l. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).		
Do step x .....	-	-
m. Do substeps below:		
(1) Remove Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).		
(2) Remove Connector Plate Assembly (A1-F18AC-740-300, WP036 00).		
(3) Does continuity exist between:		
61P-R167 pin A and 61P-R016A pin 11		
61P-R167 pin T and 61P-R016A pin 78? .....	n	o
n. Isolate defective aircraft (A1-F18A( )-WDM-000). Do step x .....	-	-
o. Replace Connector Plate Assembly (A1-F18AC-740-300, WP036 00) Do step x .....	-	-
p. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step x .....	-	-
q. Do substeps below:		
(1) On station 2, 3, 7 or 8, do substeps below:		
(a) Disconnect 61P-W097A from J1 on BRU-32 (failed station).		
(b) Connect jumper wires between:		
61P-W097A pin A and aircraft ground		
61P-W097A pin S and aircraft ground.		

Table 1. H+LKD or H+ULK Not Displayed on DDI (Continued)

Procedure	No	Yes
<p>On station 5, do substeps below:</p> <p>(a) On SUU-62( ), open door 509 (A1-F18AC-LMM-000).</p> <p>(b) Disconnect 61P-Z105A from J1 on BRU-32( )</p> <p>(c) Connect jumper wires between:</p> <p>61P-Z105A pin A and aircraft ground 61P-Z105A pin S and aircraft ground.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(4) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT control for best display.</p> <p>(5) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(6) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(7) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(8) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(9) On master arm control panel assembly, press and release A/G switch (A/G selected).</p> <p>(10) On flaps, landing gear and stores indicator panel, press and release CTR, LI RI, LO or RO JETT STATION SELECT switch for station under test.</p> <p>(11) On LH vertical console control panel, set SELECT JETT switch to RACK/LCHR.</p> <p>(12) On LH vertical console control panel, press and release SELECT JETT switch JETT pushbutton.</p> <p>(13) Does RDDI display H+LKD in wingform for station under test? .....</p>	r	c

Table 1. H+LKD or H+ULK Not Displayed on DDI (Continued)

Procedure	No	Yes
<p>r. Do substeps below:</p> <p>(1) Using unit address 6, memory inspect address for ref code:</p> <p>station 2 - MSG4 WD3 (table 2, WP010 19)</p> <p>station 3 - MSG4 WD5 (table 2, WP010 19)</p> <p>station 5 - MSG4 WD9 (table 2, WP010 19)</p> <p>station 7 - MSG4 WD13 (table 2, WP010 19)</p> <p>station 8 - MSG4 WD15 (table 2, WP010 19)</p> <p>(2) On RDDI, does DATA readout display XXX2X5? .....</p>	s	e
s. Is troubleshooting being done on station 5? .....	t	u
<p>t. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On wing pylon (failed station), open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012A from J1 on encoder-decoder.</p> <p>(4) Remove jumper wires from 61P-W097A pins A and S.</p> <p>(5) Does continuity exist between:</p> <p>61P-W097A pin A and 61P-W012A pin HH</p> <p>61P-W097A pin S and 61P-W012A pin p? .....</p>	h	i
<p>u. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) In right hand main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.</p> <p>(3) Remove jumper wires form 61P-Z105A pins A and T.</p> <p>(4) Does continuity exist between:</p> <p>61P-Z105A pin A and 61P-R016A pin 11</p> <p>61P-Z105A pin S and 61P-R016A pin 79? .....</p>	v	p
<p>v. Do substeps below:</p> <p>(1) On aircraft fuselage centerline pylon, open door 510 (A1-F18AC-LMM-010).</p> <p>(2) In door 510, disconnect 61P-Z167 from 61J-Z167.</p>		



Procedure	No	Yes
<p>(3) Does continuity exist between:</p> <p>61P-Z105A pin A and 61P-Z167 pin A  61P-Z105A pin S and 61P-Z167 pin S? .....</p> <p>w. Do substeps below:</p> <p>(1) Remove Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).</p> <p>(2) Remove Connector Plate Assembly (A1-F18AC-740-300, WP036 00).</p> <p>(3) Does continuity exist between:</p> <p>61P-R167 pin A and 61P-R016A pin 11  61P-R167 pin S and 61P-R016A pin 79? .....</p> <p>x. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:</p> <p>(1) Aircraft Fuselage Centerline Pylon SUU-62( )</p> <p>(2) Connector Plate Assembly</p> <p>(3) Proximity switch control</p> <p>(4) Remove jumper wires (61P-W097A pin A, T, S 61P-Z105A pins A, S, T)</p> <p>(5) 61P-R016A</p> <p>(6) 61P-W012A</p> <p>(7) 61P-W097A</p> <p>(8) 61P-Z105A</p> <p>(9) Doors 14R, 504, 509, 510 .....</p>	<p>l</p> <p>n</p> <p>-</p>	<p>w</p> <p>o</p> <p>-</p>

Table 2. H+ULK Displayed On DDI, Store Released Normally From BRU-32

Support Equipment Required		
Part Number or Type Designation	Nomenclatur	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Stores Inventory Schematic (A1-F18AC-740-500, WP015 06) may be used as an aid when doing this procedure.		
Memory inspect data used in this procedure is provided in WP010 19.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-32( ) Aircraft Fuselage Centerline Pylon SUU-62( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 Connector Plate Assembly Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div><div>CAUTION</div><p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p><div>NOTE</div><p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p><div><div>1. Pin to pin test per procedural step.</div><div>2. Shorts to ground.</div><div>3. Shorts between surrounding pins on connectors.</div><div>4. Shorts between shield and conductors.</div><div>5. Shield continuity.</div></div></div>		

Table 2. H+ULK Displayed On DDI, Store Released Normally From BRU-32 (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
a. Did nose wheelwell Digital Display Indicator display code 072, 073, 076, 077, or 078? . . . . .	b	z
b. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 24 and FUZING N switches to 6 and T switches 6.		
<div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(4) Connect proximity switch control (A1-F18AC-LMM-000).		
(5) Close hooks on all Aircraft Bomb Ejector Racks BRU-32( ) and set ground safety handle to LOCKED.		
(6) Turn electrical power on (A1-F18AC-LMM-000).		
(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(8) On left and right Digital Display Indicator (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.		
(9) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		

**Table 2. H+ULK Displayed On DDI, Store Released Normally From BRU-32 (Continued)**

Procedure	No	Yes
<p>(10) If troubleshooting station 2 or 8, make sure AMAC control dummy panel installed or, on AMAC control, set left and right RELEASE CONSENT switches to ON.</p> <p>(11) On RDDI:</p> <p>(a) Press 82B pushbutton switch.</p> <p>(b) Press and release PROG pushbutton switch to select PROG 5.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>If PROG 5 was previously selected, it will be displayed when power is applied. If an X is displayed through PROG, the program is incomplete. If the X is removed from PROG, do step b. 14.</p> <p>(c) Press UFC pushbutton switch.</p> <p>(12) On Electronic Equipment Control, press option 1 (QTY) select switch.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>If an error occurs while pressing keyboard switches, press keyboard CLR switch and repeat step.</p> <p>(a) Press keyboard 1 switch.</p> <p>(b) Press keyboard ENT switch.</p> <p>(13) On RDDI:</p> <p>(a) Press MFUZ pushbutton switch.</p> <p>(b) Press N/T pushbutton switch.</p> <p>(14) On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(15) On master arm control panel assembly, press and release A/G switch (A/G selected).</p> <p>(16) On BRU-32( ), did ground safety handle move to UNLOCKED? .....</p> <p>c. Do troubleshooting for Ground Safety Handle Does Not Move to UNLOCKED or LOCKED (table 1, WP021 00). Do step aa .....</p> <p>d. Do substeps below:</p> <p>(1) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(2) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE to OVER-RIDE.</p> <p>(3) On RDDI, is not ready X removed from 82B, RDY displayed under 82B, and box displayed in wingform around priority station? .....</p>	<p>c</p> <p>-</p> <p>e</p>	<p>d</p> <p>-</p> <p>f</p>

**Table 2. H+ULK Displayed On DDI, Store Released Normally From BRU-32 (Continued)**

Procedure	No	Yes
e. Do troubleshooting for Status Not Displayed on DDI for Selected A/G Weapon (table 4, WP031 00). Do step aa . . . . .	-	-
f. Do substeps below:		
(1) On RDDI, press and release STEP pushbutton switch to select station under test.		
(2) Open hooks on BRU-32( ) (failed station).		
(3) On aircraft controller grip assembly, press and release A/G weapon release switch.		
(4) On RDDI, is H+ULK displayed in wingform for station under test? . . . . .	w	g
g. Do substeps below:		
(1) Using unit address 6, memory inspect address for ref code:		
station 2 - MSG4 WD3 (table 2, WP010 19)		
station 3 - MSG4 WD5 (table 2, WP010 19)		
station 5 - MSG4 WD9 (table 2, WP010 19)		
station 7 - MSG4 WD13 (table 2, WP010 19)		
station 8 - MSG4 WD15 (table 2, WP010 19)		
(2) On RDDI, does DATA readout display XXX1X5? . . . . .	h	i
h. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00). Do step aa . . . . .	-	-
i. Is troubleshooting being done on station 5? . . . . .	j	o
j. Do substeps below:		
(1) On wing pylon (failed station), open door 504 (A1-F18AC-LMM-010).		
(2) Turn electrical power off (A1-F18AC-LMM-000).		
(3) In door 504, disconnect 61P-W012A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-W012A pin HH and aircraft ground? . . . . .	k	l
k. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
Do step aa . . . . .	-	-
l. Do substeps below:		
(1) Disconnect 61P-W097A from J1 on BRU-32.		
(2) Does continuity exist between 61P-W012A pin HH and aircraft ground? . . . . .	m	n

Table 2. H+ULK Displayed On DDI, Store Released Normally From BRU-32 (Continued)

Procedure	No	Yes
m. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00). Do step aa . . . . .	-	-
n. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step aa . . . . .	-	-
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(3) Does continuity exist between 61P-R016A pin 11 and aircraft ground? . . . . .	p	q
p. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step aa . . . . .	-	-
q. Do substeps below:		
(1) On aircraft fuselage centerline pylon, open door 509 (A1-F18AC-LMM-010).		
(2) In door 509, disconnect 61P-Z105A from 61 on BRU-32.		
(3) Does continuity exist between 61P-R016A pin 11 and aircraft ground? . . . . .	m	r
r. Do substeps below:		
(1) On aircraft fuselage centerline pylon, open door 510 (A1-F18AC-LMM-010).		
(2) In door 510, disconnect 61P-Z167 from 61J-Z167.		
(3) Does continuity exist between 61P-R016A pin 11 and aircraft ground? . . . . .	s	t
s. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00). Do step aa . . . . .	-	-
t. Do substeps below:		
(1) Remove Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).		
(2) Remove Connector Plate Assembly (A1-F18AC-740-300, WP036 00).		
(3) Does continuity exist between 61P-R016A pin 11 and aircraft ground?. . . . .	u	v

**Table 2. H+ULK Displayed On DDI, Store Released Normally From BRU-32 (Continued)**

Procedure	No	Yes
u. Replace Connector Plate Assembly (A1-F18AC-740-300, WP036 00). Do step aa. ....	-	-
v. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step aa. ....	-	-
w. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
<b>NOTE</b>		
Malfunction can be caused by intermittent wiring. When doing continuity tests be sure to test for intermittent shorts to ground or surrounding wiring.		
(2) Is troubleshooting being done on station 5? .....	x	y
x. Do substeps below:		
(1) On aircraft wing pylon, open door 504 (failed station) (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W012A from J1 on encoder-decoder.		
(3) Disconnect 61P-W097A from J1 on BRU-32.		
(4) Does continuity exist between 61P-W012A pin HH and 61P-W097A pin A? .....	n	m
y. Do substeps below:		
(1) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(2) On aircraft fuselage centerline pylon, open door 509 (A1-F18AC-LMM-010).		
(3) In door 509, disconnect 61P-Z105A from J1 on BRU-32.		
(4) Does continuity exist between 61P-R016A pin 11 and 61P-Z105A pin A? .....	r	m
z. Do table 1, maintenance action required (A1-F18AC-740-200, WP010 00). ....	-	-
aa. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) Aircraft Fuselage Centerline Pylon SUU-62( )		
(2) Connector plate assembly		
(3) Disconnect Proximity switch control		
(4) 61P-W016A		

**Table 2. H+ULK Displayed On DDI, Store Released Normally From BRU-32 (Continued)**

Procedure	No	Yes
(5) 61P-W012A		
(6) 61P-W097A		
(7) 61P-Z105A		
(8) 61P-Z167		
(9) Doors 14R, 504, 509, 510 .....	-	-

**Table 3. H+ULK Displayed On DDI, Store Failed To Release From BRU-33**

<p align="center"><b>Support Equipment Required</b></p> <p align="center">None</p> <p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p align="center">Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Bomb Ejector Rack BRU-33( )</p> <p>Aircraft Fuselage Centerline Pylon SUU-62( )</p> <p>Aircraft Wing Pylon SUU-63( )</p> <p>Aircraft Wiring</p> <p>Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p> <p>Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
a. Did cartridge fire in Aircraft Bomb Ejector Rack BRU-33( ) breech? .....	b	c
b. Do release circuit test (A1-F18AC-740-200, WP033 01) .....	-	-
c. Does ground safety handle operate electrically from LOCKED to UNLOCKED? .....	d	e
d. Do troubleshooting, Table 1 (A1-F18AC-740-200, WP033 02) .....	-	-
e. Replace Aircraft Bomb Ejector Rack BRU-33( ) (A1-F18AC-740-300, WP028 00) .....	-	-



Table 4. H+ULK Displayed On DDI, Store Failed To Release From MER

<b>Support Equipment Required</b>  None  <b>Materials Required</b>  None  <b>NOTE</b>  Component locations are shown in WP007 00.  Malfunction is caused by one of the items listed below:  Aircraft Fuselage Centerline Pylon SUU-62( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Multiple Ejector Rack/BRU-41( ) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
a. Did cartridge fire in ejector unit breech? .....	b	c
b. Check breech cap firing pin and do release circuit test, table 1 (A1-F18AC-740-200, WP032 01) .....	-	-
c. Was safety stop lever on MER/BRU-41( ) ejector unit at unlocked, or warning plate not visible? .....	d	e
d. Move safety stop lever to unlocked, will manual release lever open ejector unit hooks? .....	f	e
e. Were ejector unit swaybraces too tight? .....	f	g
f. Replace Multiple Ejector Rack/BRU-41( ) (A1-F18AC-740-300, WP037 01) .....	-	-
g. After loading bombs on ejector unit, tighten swaybraces (A1-F18AE-LWS-000) .....	-	-

